



# ***MapSource®***

user's  
manual  
and  
reference  
guide



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Thank you for choosing Garmin MapSource® — the complete tool for managing your Garmin GPS. MapSource provides geographic data on a CD-ROM to view on a PC or add to the basemap of your Garmin GPS. With MapSource, you can view existing waypoints, routes and tracks on the graphic map by uploading the information from your Garmin GPS or quickly create new waypoints or routes with a click of the mouse and download them to the Garmin GPS. When uploading your saved information from your GPS, editing and managing your waypoints, routes, and tracks is made easy with MapSource. This manual is organized into five sections for your convenience:

**Introduction**—contains the Table of Contents and important information pertaining to the use of MapSource data.

**Getting Started**—installation, unlocks, GPS connections, and reference to the MapSource Tour.

**User's Interface**—finding your way around MapSource.

**Reference**—how to use MapSource.

**Appendices**—contains Keyboard Shortcuts, the map legends for MapSource, and the Index.

We hope you enjoy MapSource and thank you again for choosing Garmin!

## **PRODUCT REGISTRATION**

**Help us better support you by completing our on-line registration today!** Have the serial number of your MapSource software handy and connect to our web site ([www.garmin.com](http://www.garmin.com)). Look for the Product Registration link on the Home page. Also, be sure to record your serial number in the right-hand column for a quick reference.

## **Introduction**

### **Registration and Support**

#### **Serial Number**

*Use this area to record the serial number (8-digit number located on the back of the box) in case the MapSource software is lost, stolen, or needs service. Be sure to keep your original sales receipt in a safe place or attach a photocopy inside the manual.*

Serial Number:

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#### **Contact Garmin Customer Service**

*If you should encounter any difficulty while installing MapSource, or if you have any questions about MapSource, contact Garmin's Product Support Department by phone at 800-800-1020, Monday – Friday, 8 am – 5 pm Central Time; or by e-mail at: [sales@garmin.com](mailto:sales@garmin.com).*

# Introduction

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## Introduction

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# Introduction

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Garmin encourages customers to report any errors found in our electronic maps by completing our on-line Error Reporting Form in the Cartography section of our web site at: <http://www.garmin.com/cartography/mapSource/errorForm.html>.

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## Introduction

### Warnings and Cautions

**BlueChart®**

The following Warnings and Cautions may apply to some or all of the content in the MapSource BlueChart™ CD-ROM:

**WARNING:** No National Hydrographic Office has verified the information in this product and none accept liability for the accuracy of reproduction or any modifications made thereafter. No National Hydrographic Office warrants that this product satisfies national or international regulations regarding the use of the appropriate products for navigation.

**WARNING:** This product has been produced, in part or whole, from the United Kingdom Hydrographic Office products. No liability is accepted for the use of this product and it must not be used to assist in navigation. The digital chart(s) contained herein have not been verified or updated. For their own safety, users are advised to consult official updated nautical charts for purposes of navigation.

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## **COMPATIBILITY**

MapSource is compatible with all Garmin GPS systems except the GPS 100 family of products (including GPS 100AVD, GPS 100MRN, GPS 100MIL, and SRVY II) and Panel Mount Aviation products.

### **Data Transfer**

Not all Garmin GPS systems are compatible with this feature. Please consult your GPS Owner's Manual to determine if your unit is able to use this feature.

Garmin storage cards (available for use with selected Garmin GPS systems), and other storage media like Compact Flash (CF) cards and Secured Digital (SD) cards can transfer all MapSource data types. Be aware when transferring MapSource data, the storage card will overwrite the old data with the new data. (See *Information on Storage Cards* on page 44.)

### **Minimum System Requirements**

IBM-compatible PC with Pentium processor or equivalent, 16-32 Megabytes RAM, CD-ROM drive, mouse or other pointing device, 256-color display adapter (24-bit color recommended) and monitor with 640 x 480 resolution or higher, and a minimum of 20 Megabytes to 1.5 Gigabytes of free hard drive space (depending on the map data).

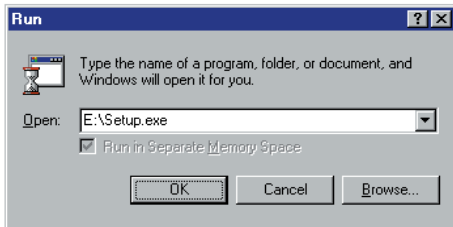
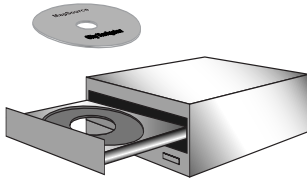
MapSource requires a 32-bit operating system such as Windows 95/98/2000, Windows ME, XP or Windows NT 4.0. An available serial port or USB port (if applicable) is required for interfacing with a Garmin GPS unit. Internet access is recommended for MapSource products with "locked" data. Use of the Garmin USB Data Card Programmer accessory requires Windows 98/2000, Windows ME or XP, and a USB (Universal Serial Bus) Port.

## **Getting Started**

### **Compatibility and Installation Requirements**

# Getting Started

## Non-Autorouting Installation



### Run Window

*If the installation cd does not automatically run upon insert, click Start, then Run. Type the letter of your CD-ROM drive and follow the example above.*

MapSource can be divided into 3 types of installation: Non-autorouting, Autorouting, and Setup CD.

- Non-Autorouting: MapSource provides geographic data only
- Autorouting: MapSource provides turn-by-turn routing instructions (MetroGuide(some versions may not autoroute), City Select, and City Navigator)
- Setup CD: package contains an extra CD with setup and support files

To find out which MapSource install you have, ask yourself the following questions:

- 1) Do I have a Setup CD? If Yes, skip to page 3 for installation instructions. If No, proceed to question 2.
- 2) Do I own MetroGuide, City Select, or City Navigator? If yes, skip to page 5 for installation instructions. If No, continue reading this page.

## **INSTALLING MAPSOURCE (NON-AUTOROUTING)**

### **To install the MapSource software:**

1. Insert the MapSource CD-ROM into your computer's CD-ROM drive.
2. Your computer should automatically run the start-up file and display a welcome screen. If it doesn't run automatically, click the "Start" button and select "Run..." then type in the drive letter of your CD-ROM drive followed by "setup" (for example, "d:\setup"), and press **Enter**.
3. Follow the directions on your computer screen.
4. If you have purchased multiple MapSource products, repeat steps 1-3 for the additional CD-ROM(s). "Full Install" copies all files to your hard drive, so the CDs won't be required to run the program. This may take 1-2 Gigabytes of hard drive space.

If your MapSource product includes more than one CD, installation will only start from disc one. The other MapSource discs will be needed for running the program after installation. When installation is complete, skip to page 6 to continue.

## **INSTALLING MAPSOURCE (SETUP CD)**

Following are installation instructions for MapSource products that include a Setup CD. The Setup Menu includes installation of the map data to your hard drive, a MapSource Tutorial (instructs how to download maps), and other support files.

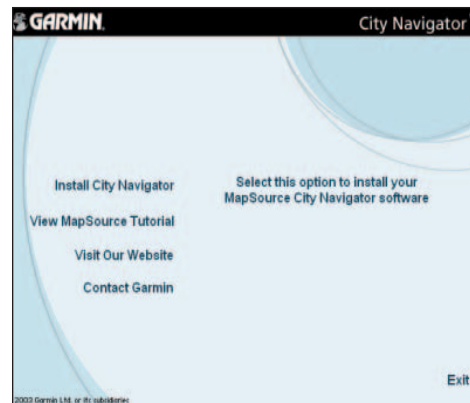
### **To install MapSource from the Setup CD:**

1. Insert "Setup CD" into your computer's CD-ROM drive.
2. Your computer should automatically run the start-up file and display a Start Up Screen. If it doesn't run automatically, click the "Start" button and select "Run..." then type in the drive letter of your CD-ROM drive followed by "setup" (for example, "d:\setup"), and press **ENTER**.
3. When the Start Up Screen displays, select the desired installation language and continue to the Options Menu.
4. Choose an available option from the list and follow the on-screen instructions.

From the Options Menu, you have the choice to "Install <Name of MapSource program>", "View MapSource Tutorial", "Visit our website", "Contact Garmin", or other support files (if applicable). If you choose to install the map data, an InstallShield Wizard appears. For more information about the InstallShield Wizard go to page 4. 'View MapSource Tutorial' plays a video to help show how to select and download maps, 'Visit our website' sends you to Garmin's web site (you must have Internet connection to choose this option), and 'Contact Us' allows you to e-mail us. Any other support options available are specific to the Garmin GPS unit you have purchased.

## **Getting Started**

### **MapSource Setup CD Installation**



#### **Setup CD Options**

*This is an example of the options that appear when the Setup CD runs on your computer. Any more options that appear is specific to the GPS unit purchased.*

## Getting Started

### InstallShield Wizard



**NOTE:** After you have installed a MapSource City Navigator or City Select product, you will be prompted to enter a 25-character Unlock Code provided with your MapSource CD, and packaged in a separate envelope. Refer to detailed instructions titled "Unlocking Maps" on pages 7 and 8 where you will be instructed on the use of either the UnlockWizard or "Unlock Codes" Window.

If you have previously installed other MapSource products on your hard drive, and do not have enough hard drive space to install the entire mapping product database, try one of the following:

- Select fewer coverage areas to download.
- Remove other programs from your hard drive.
- Completely uninstall all other MapSource products and re-install them to a new hard drive. Then, install the new MapSource product to the same new hard drive (all MapSource product files must reside on the same hard drive).

#### Using the InstallShield Wizard

You can modify, repair or remove the program with the InstallShield Wizard at any time.

##### **To access the InstallShield Wizard:**

1. Click the **Start** button, select "Programs," then "MapSource," then "<The name of the new MapSource product> Installation Wizard."

##### **To add or remove specific Coverage Areas:**

1. From the InstallShield Wizard screen, select "Modify," and click "Next."
2. On the Regional Coverage Area Selection page, check/uncheck the boxes next to the areas you want to add/remove and click "Next."

On the InstallShield Wizard screen you may also select "Repair" to duplicate the previous installation of the mapping product if it becomes corrupt, or "Remove" to completely uninstall all components of the previous product from your hard drive.

## **INSTALLING MAPSOURCE (AUTOROUTING)**

Following are installation instructions for MapSource MetroGuide, City Select, and City Navigator owners. Program files for these type products must be installed on your hard drive in order to run MapSource. In addition, you must choose to download one, several, or all regional coverage areas. When the installation is complete, skip to page 7 for Unlocking Maps.

### **To install MapSource automatic routing mapping software:**

1. Insert "Disk 1" of the mapping CD in your computer's CD-ROM drive.
2. Your computer should automatically run the start-up file and display a Welcome screen. If it doesn't run automatically, click the **Start** button and select **Run...** then type in the drive letter of your CD-ROM drive followed by "setup" (for example, "d:\setup"), and press **ENTER**.
3. Follow the directions on your computer screen.

### **To select Regional MapSource maps:**

1. You will see a map divided into regional coverage areas, followed by a coverage area selection page.
2. On the Regional Coverage Area Selection page, click the box next to the regions you want to download to your hard drive. A check mark in the box indicates the regions selected.

When you select a region, a description of the coverage area is displayed to the right. The total space required for downloading the files, along with the available space on your designated hard drive is displayed below the region selection list (be sure your hard drive has enough room to download the files).

3. Select the regions you want to download and click "Next."
4. Follow the directions on your computer screen to complete setup. Installation may take several minutes.

## **Getting Started**

### **Autorouting MapSource Installation**



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**NOTE:** *You will only be able to search, autoroute, and/or see detailed maps in the areas you download to your hard drive. For example: To create an auto-route from San Francisco to New York, you must install the regions that include those two cities, plus all the regions in between that the route will go through.*

---

### Removing MapSource

#### To remove the MapSource mapping product from your system:

1. Click the **Start** button.
2. Select "*Settings*," then "*Control Panel*." From the Control Panel page, select "*Add/Remove Programs*," highlight "MapSource - <Name of the Product>" and click "*Add/Remove*."

#### OR:

Select "*Programs*," then "*MapSource*," then "<Name of the Product> Installation Wizard."

3. The InstallShield Wizard page appears. Select the "*Remove*" option and click "*Next*," then click "*Finish*."

#### To remove all other MapSource products from your system:

1. Click the **Start** button and select "*Settings*," then "*Control Panel*."
2. From the Control Panel page, select "*Add/Remove Programs*."
3. Highlight "MapSource" and click "*Add/Remove*."



## UNLOCKING MAPS

Some MapSource products must be “unlocked” before you can view and download the detailed map data. Those products come with either a 25-character unlock code, a ready-to-use code to unlock the entire maps of the program, or a MapSource Unlock Certificate, an 8-character coupon code for obtaining an unlock code that unlocks a single region.

An UnlockWizard automatically runs at the end of the installation process. Follow the directions on your computer screen and use the code to unlock the map data and register your MapSource product.

If you did not unlock maps during installation, if you want to unlock another MapSource region, or if you want to unlock maps for a second Garmin GPS unit, you may do so using the UnlockWizard, and/or Garmin’s website, [www.garmin.com](http://www.garmin.com).



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**NOTE:** *Keep your Unlock Certificate and Unlock Code in a safe place. You may need this information in the future if you need to re-install MapSource. Garmin cannot give refunds or exchanges for MapSource Unlock Codes.*

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### **Redeeming a Coupon Code**

If your MapSource Unlock Certificate includes an 8-character coupon code, you will use that number to obtain an unlock code, either by following the directions on the Certificate or by using the UnlockWizard.

## Getting Started

### Unlock Codes



*MapSource products that require an unlock code carry this symbol on the outside of the box.*



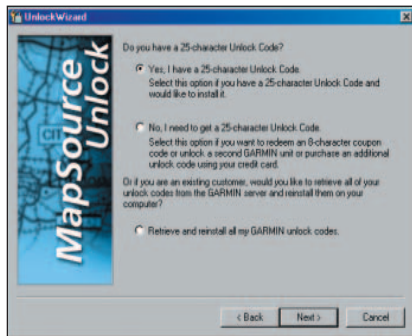
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**NOTE:** *If your MapSource program does not have a 25-character code or an 8-character coupon code, and you do not see the symbol above on the outside of the box, you DO NOT need to unlock the maps to view map detail.*

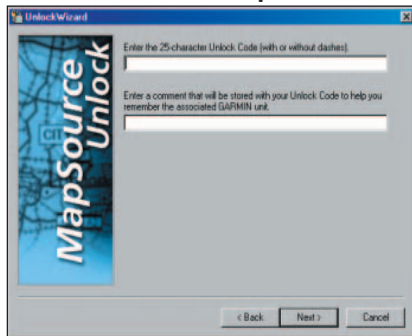
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# Getting Started

## Unlock Codes



### UnlockWizard Options



### Enter 25-character unlock code

## UnlockWizard

To run the UnlockWizard, click the Start button, select “Programs,” then select UnlockWizard from the MapSource menu. Follow the directions on your computer screen to either enter a 25-character unlock code or redeem an 8-character coupon code to unlock the map data. Once the map data is unlocked, the unlock code and coverage area information will appear in the ‘Unlock Regions’ window (**CTRL+U**) in MapSource.

If you have a 25-character unlock code that you did not enter using the UnlockWizard during installation, you may enter it in the ‘Unlock Codes’ window in MapSource instead of running the UnlockWizard again.

### To enter an Unlock Code and unlock a map region:

1. Select “*Unlock Regions*” from the Tools Menu or press **Ctrl** and **U**.
2. Click the “*Add*” button. Type or paste the 25-character code in the space. Enter a note in the Comment field if desired (this may be useful for distinguishing multiple Unlock Codes in the list).
3. Click “*OK*”. To add another code, repeat step 2. To exit, click the “*Close*” button.

### To delete an Unlock Code:

1. Select “*Unlock Regions*” from the Tools Menu or press **Ctrl** and **U**.
2. Select the desired Unlock Code by highlighting it with a click of the left mouse button.
3. To delete the Unlock Code, left click on an unlock code to highlight it and click the “*Delete*” button. Click “*Yes*” when you are asked “Are you sure you want to delete...” If you made a mistake, click “*No*” and the Unlock Code will not be deleted. To exit, click the “*Close*” button.



**NOTE:** The Unlock Wizard is not available in all MapSource products.

To help keep your unlock codes in a place for safekeeping, you have the choice to backup the unlock codes to a file and store it in a separate location. If you ever misplace your unlock codes, one or more unlock codes are removed from MapSource, or your need to reinstall the MapSource program, you can restore the unlock codes from the saved back up file.



**NOTE:** *It is recommended to keep the back up file in a separate location away from the MapSource folder.*

### To backup all your Unlock Codes in a saved file:

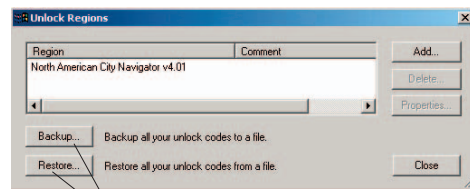
1. Select "Unlock Regions" from the Tools Menu or press **Ctrl** and **U**.
2. With your unlock codes entered, click the "Backup" button. Name the file in the 'File Name:' field.
3. Place the file in a specific folder using the 'Save in:' field and choose your destination. (i.e. your floppy drive a:\, your hard drive c:\, your Desktop, or My Documents)
4. Press the **Save** button to save and store your file.

### To restore all your Unlock Codes from a saved file:

1. Select "Unlock Regions" from the Tools Menu or press **Ctrl** and **U**.
2. Press the "Restore" button. The 'Open' window appears.
3. Locate your saved unlock codes file by using the 'Look in:' field.
4. Left click on the saved unlock codes file to highlight it and click the "Open" button to restore the unlock codes in the 'Unlock Region' window.

## Getting Started

### Unlock Codes



#### Backup and Restore Options

*Backup or Restore your unlock codes from a saved file on your computer.*

## Getting Started

### GPS Connections



**Serial Communications Port**



**USB Data Port**

### CONNECTING THE GPS TO A COMPUTER

#### **To connect your GPS to your computer via a Serial Interface Cable:**

1. Using a PC Interface Cable, connect your GPS to a serial communications port on your computer (see illustration).
2. To be sure you have a good connection, you can have MapSource automatically detect the GPS on the COM port. Check that your GPS is powered on and the Serial Data Format is set to Garmin.
3. Select 'Get Unit ID' from the Tools Menu.
4. Click the "Auto Detect" button. MapSource will verify that the GPS unit is properly connected to your computer.
5. Click "OK" to set the COM port and exit.

#### **To connect your GPS to your computer via a USB Interface Cable:**

1. Using the USB data cable, connect your GPS to an available USB data port (see illustration).
2. When you connect the USB GPS to a USB port the first time, your computer discovers new hardware and prompts you to locate the destination of the drivers for the USB GPS. Refer to your Garmin USB GPS Owner's Manual for instructions to install the drivers. You only need to install the drivers once. After completing the driver installation, MapSource will detect your Garmin USB GPS every time you connect to the computer thereafter.
3. To test if the device is found in MapSource go to 'File', 'Save To', 'USB GPS'. Under the 'USB GPS' dialog box, you either see the default name of the USB GPS along with the current software version of the unit or the new name of the USB GPS device if you changed the name. You now have access to transfer MapSource data (once selected) to and from your Garmin USB GPS.

## **MAPSOURCE TOUR**

MapSource comes with a document file that includes a sample of waypoints, one route, and instructions how to perform the basic operations of MapSource. This file is called the MapSource Tour. After opening the MapSource Tour file, refer to the Help Menu in MapSource for the MapSource Tour instructions.

### **To open the MapSource Tour file:**

1. In MapSource, select 'Open' in the File Menu.
2. In the "Look In:" field, click on the upside-down black arrow to the right of the field. From the drop-down list, select your hard drive, e.g C:\.
3. Select the "Garmin" folder.
4. Select "MapSource Tour.mps" in the window.

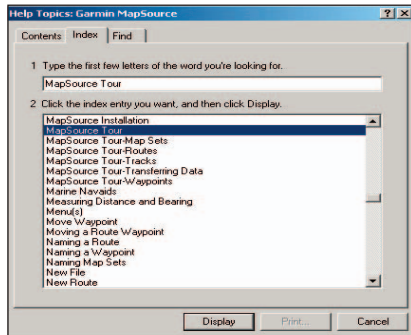
After selecting MapSource Tour.mps, the file opens in Mapsource, and the name of the file appears in the top left corner of the screen. You will see 13 waypoints in the Waypoints Tab and one route in the Route Tab on the left side of the window.

### **To find MapSource Tour in the Help Menu:**

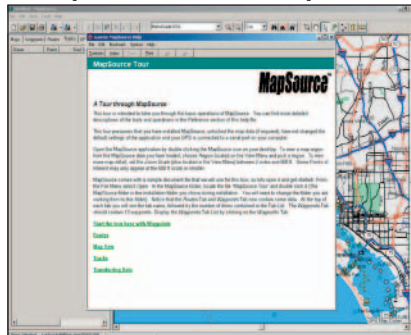
1. Select 'Index' from the Help Menu in MapSource.
2. In field number 1, type "MapSource Tour".
3. With MapSource Tour highlighted in field number 2, select the "Display" button at the bottom of the window.

## **Getting Started**

### **MapSource Tour**



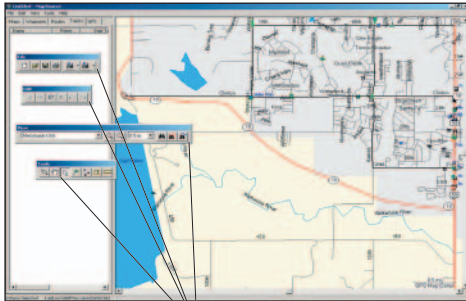
### **MapSource Tour in the Help Menu**



### **MapSource Tour Display**

## User's Interface

### MapSource Toolbars



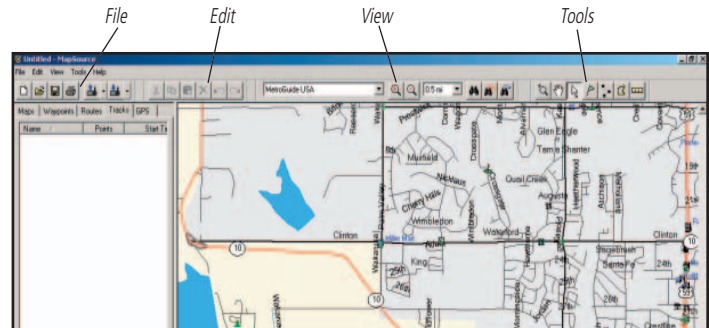
**Undocking the Toolbars**

## FINDING YOUR WAY AROUND MAPSOURCE

In this section, you learn the interface of the MapSource screen. This section includes MapSource Toolbars, Data Tabs, Graphic Map, Status Bar, and Menu Systems (File, Edit, View, Tools, Help, and Right-Click Menus).

### MapSource Toolbars

MapSource has four toolbars: 'File', 'Edit', 'View', and 'Tools' that allow you to quickly perform many of the functions available in the menus.



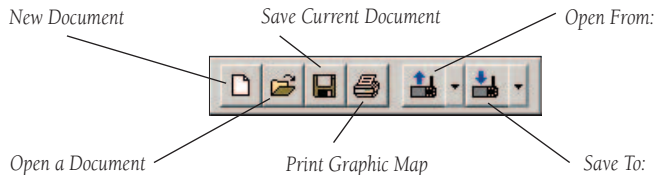
### Undocking the Toolbars

The toolbars can be undocked and moved around the application for your convenience. To undock a toolbar, place the mouse pointer over an open area on the toolbar, click and hold the left mouse button and move the toolbar to a different location. To return a toolbar to its starting location, move it back to the top of the application.

### File and Edit Toolbars

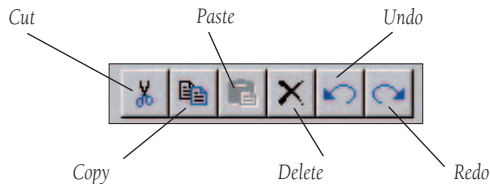
#### **File Toolbar**

The File Toolbar contains functions of the File Menu. You can create a New Document, Open a Document, Save the Current Document, and Print the Graphic Map. You may also transfer data between MapSource and a GPS or a storage card by selecting Open From (Device), or Save To (Device). See page 17 for more detailed information on the File Menu.



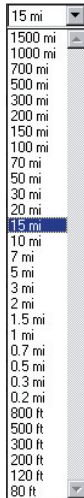
#### **Edit Toolbar**

The Edit Toolbar contains functions of the Edit Menu. You can select the Cut, Copy and Paste functions, Delete selected items, and Undo the last user action. After an "Undo" is performed, the Redo button is activated, allowing you to revert to the last user action, or "Redo" the "Undo." See page 18-22 for more detailed information on the Edit Menu.



# User's Interface

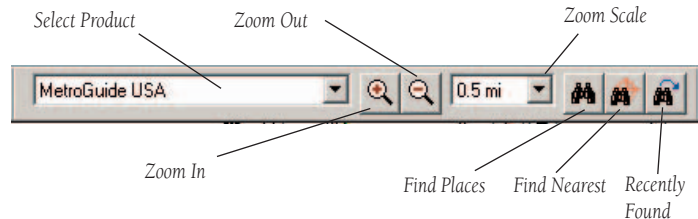
## View and Tools Toolbars



With the Zoom Scale, you can zoom In as close as 80 ft., and Out up to 1500 miles. The Zoom In and Zoom Out buttons offer the same zoom increments.

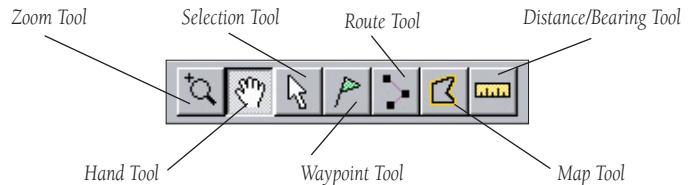
## View Toolbar

The View Toolbar contains features of the View Menu. You can select a Product to view, Zoom In/Out, select a specific Zoom Scale, or activate the Find features. The Find features let you search for a city and view it on the Graphic Map. Some MapSource products include the Find Places feature, allowing you to search for a city, point of interest or an address and view it on the Graphic Map. See page 23 for more detailed information on the View Menu.



## Tools Toolbar

The Tools Toolbar contains features of the Tools Menu. You can directly select the Zoom, Hand, Selection, Waypoint, Route, Map, and Distance/Bearing Tools. See page 28 for more detailed information on the Tools Menu.





## Data Tabs

The Data Tabs (Maps, Waypoints, Routes, Tracks, and GPS) are located on the left side of the display. When the Maps, Waypoints, Routes, or Tracks tab is selected, the data for that item is displayed in a list. The Tabs display information about data created in the graphic map area to the right or data transferred from a GPS. For example, when you select maps to be saved to a GPS, they are listed in the Maps Tab. The GPS Tab provides real time tracking when you run MapSource on a laptop with a Garmin GPS connected to the laptop. For more information on real-time tracking and the GPS Tab, see page 59-63.

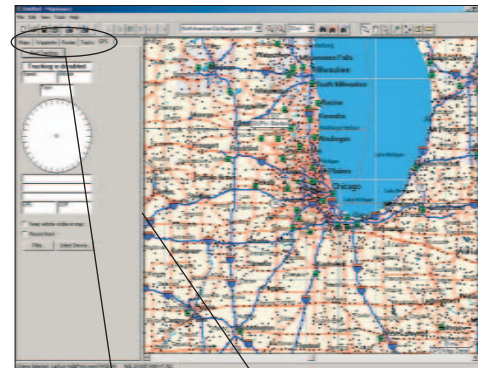
The Tabs allow you to easily select items for viewing or editing. Data displayed in the Tabs can be sorted by column. To sort the data by a specific column, click on the column header. An arrow appears showing the direction of the sort, ascending or descending. You may also change the order the columns are arranged from left to right by click and holding on a column header, then “dragging and dropping” the column into the desired location.

You may need to move the Splitter Bar to see all the column headers. The Splitter Bar can be moved by clicking and holding the left mouse button on the bar and dragging it to a new location.

The Tabs show what items are transferred to a GPS or a storage card. MapSource transfers all of the data in a chosen Tab, not just the item highlighted in the list.

## User's Interface

### Data Tabs



Tabs

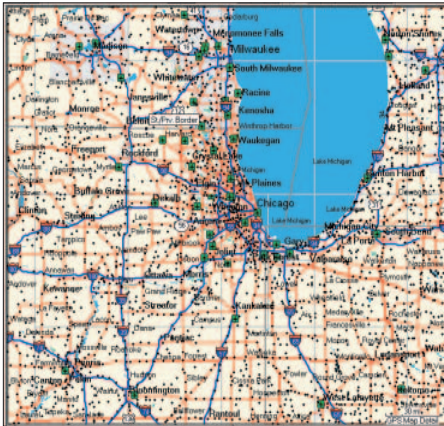
Splitter Bar

### Tab Lists

*The Tab selects the type of data displayed. To see all of the data it might be necessary to change the position of the Splitter Bar. The Splitter Bar can be moved by clicking and holding the left mouse button on the bar, and dragging it to a new location.*

## User's Interface

### Graphic Map/ Status Bar



Graphic Map



Status Bar

### Graphic Map

The Graphic Map displays the area of the world that is currently selected from the MapSource product in the 'Products' Box (View Menu). You can zoom in and out and move to different parts of the selected area. At large zoom scales (ZOOM OUT), less detail is displayed. At smaller zoom scales (ZOOM IN), you can see the actual detailed map features that can be transferred to your GPS (if your GPS supports this feature). When this occurs, "GPS Map Detail" is displayed below the zoom scale in the lower right-hand corner of the Graphic Map.

There are many ways to pan the Graphic Map: by using the on-screen scroll bars, the keyboard's arrow keys, or the 'Hand' tool. In addition, the **Page Up** and **Page Down** keys move the map window up or down by the length of the window. Holding the **Ctrl** key and pressing an arrow key moves the map by the width of the window in that direction (up, down, left, or right).

### Status Bar

The Status Bar extends across the bottom of the MapSource window. The Status Bar displays information relating to the current action. The Status Bar can show:

- The number of tab items selected in the Tab List.
- The current Position Format and Map Datum set in Preferences.
- Latitude and Longitude of the mouse pointer when the mouse is positioned on the Graphic Map, regardless of which tool is selected.
- If the Map Tool is selected, the name and approximate data size of the geographical map boundary currently highlighted on the Graphic Map is displayed in the right panel of the Status Bar.
- If the Distance/Bearing Tool is selected, the distance and bearing from a beginning point is displayed in the right panel of the Status Bar.

## FILE MENU

**New**— Opens a new, empty (Data Tabs) MapSource document.

**Open**— Opens a previously saved MapSource document.

**Save/Save As**— Saves the current MapSource document.

**Print**— Prints the current Graphic Map display.

**Print Preview**— Shows a preview of what will be printed. To print the preview, click the “Print” button at the top of the page.

**Print Setup**— Activates the setup page for printing the MapSource Graphic Map display.

**Open From**— Allows you to transfer selected data (Maps, Waypoints, Routes and Tracks) from a GPS or a storage card. See “Transferring Data” on page 43 for more information.

**Save To**— Allows you to transfer selected MapSource data to a GPS or storage card. See “Transferring Data” on page 43 for more information.

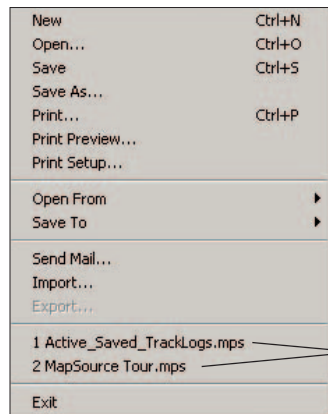


**NOTE:** *Garmin GPS units are limited in the number of waypoints, routes, tracks and map sets that can be stored in the unit. Please refer to your Garmin GPS owner’s manual to learn more about how much memory your GPS unit has to store this information.*

**Send Mail**— This function allows you to send an e-mail with the current MapSource document as an attachment. The recipient must own a MapSource program and the version must be equal to or greater than the version of the file sent. For example, the user receives a MapSource file with version 4.10. The user must have MapSource version 4.10 or higher to view the file. MapSource version 3.0 will not work.

## User’s Interface

### File Menu



### File Menu

## User's Interface

### File Menu/Edit Menu

Undo	Ctrl+Z
Redo	Ctrl+Y
Cut	Ctrl+X
Copy	Ctrl+C
Paste	Ctrl+V
New Waypoint...	Ctrl+W
New Route...	Ctrl+R
New Track...	Ctrl+Shift+T
Duplicate Route	
Delete Item	Del
Remove Waypoint(s) from Route	Ctrl+Del
Properties...	
Select All	Ctrl+A
Preferences...	Ctrl+Shift+P

### Edit Menu

**Import**— This feature allows the user to open data stored using Garmin's PCX5 Version 2.09 software. MapSource displays waypoints (.wpt), routes (.rte), tracks (.trk) or one of the maps (.grm) provided with PCX5. When using a PCX5 map (.grm), turn off any MapSource map data by choosing 'No Map' in the 'Products' selection in the View Menu or the View toolbar to avoid screen clutter.

**Export**— This feature allows the user to export MapSource data in a tab delimited text format (.txt) for use in a word processor or spreadsheet, or in a .dxf format.

**Recent Files**— This area shows the four most recently used MapSource documents. To quickly reopen one of these files, click on the document name.

**Exit**— Closes the MapSource application.

### EDIT MENU

**Undo**— Reverts to most recent previous action taken by the user.

**Redo**— After an 'Undo' is performed, the Redo button is activated, allowing you to revert to the last user action, or "Redo" the "Undo."

**Cut, Copy, Paste**— These functions work like many other Windows programs. You may cut or copy any MapSource list information in the Data Tabs to the Windows clipboard for the following purposes:

- To paste data from one active MapSource document to another active MapSource document.
- To paste MapSource information into a word processor, simple text editor, or a spreadsheet program in tab-delimited text format.

**New Waypoint**— Automatically creates a new waypoint in the center of the Graphic Map, assigns a waypoint name, description, and displays the ‘Waypoint Properties’ dialog box. You can change the waypoint name, description, position, assign an altitude, enter a proximity distance, enter a depth, choose a symbol, select display colors (if you have a color unit), and set the display options for the waypoint. To center the waypoint on the Graphic Map, click “Show on Map”. When you are finished, click the “OK” button to save the waypoint. If you don’t want to save the waypoint, click the “Cancel” button. For more detailed information, see “Creating Waypoints” on page 47.

**New Route**— Displays the ‘Route Properties’ dialog box.

### To create a new route:

1. Click the “Find” button. In the ‘Find Places’ window under the Waypoint Tab, select a waypoint by typing in the name of the waypoint you wish or select from a list of waypoints by clicking the “Select” button (you must have already created and saved waypoints to choose from a list).
2. After selecting the waypoint, click the “Find” button to locate the waypoint. Select the “Add to Route” button to add the waypoint to the route. With some MapSource products, you may also search for a city, point of interest, or an address to add to the route by clicking the appropriate tab button (City, Feature, or Address). Continue inserting route points in the order navigation will take place. When the last point has been inserted, click “OK” to save and add the new route to the Routes Tab List.
3. If you wish to view the new route on the Graphic Map, click “Show on Map”.

When you create a route, MapSource automatically assigns a name based on the names of first and last route waypoints. To change the route name, uncheck the ‘Autoname’ box. This will activate the name field so you can type in a new route name. For more detailed information, see page 51.

## User’s Interface

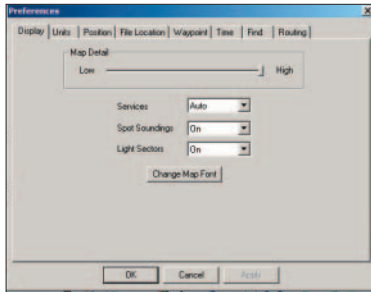
### Edit Menu

The screenshot shows the 'Waypoint Properties' dialog box. The fields are filled with the following values: Name: KNSCTY, Description: Kansas City (Mo-Ks), Position: N39 03.832 W94 42.134, Altitude: [empty] ft, [checked] Unknown, Proximity: [empty] mi, [checked] Unknown, Depth: [empty] ft, [checked] Unknown, Symbol: Waypoint, Color: Unknown, Display: Symbol & Name. The dialog has 'OK' and 'Cancel' buttons at the top right and a 'Show On Map' button at the bottom right.

**‘Waypoint Properties’ Dialog Box  
for a New Waypoint**

# User's Interface

## Edit Menu: Preferences



Preferences—'Display' Tab



Preferences—'Units' Tab

**Duplicate Route**— Duplicates the selected route in the route list. The name of the new, duplicated route is followed by a numerical value to indicate a duplication.

**Delete Item**— Deletes Waypoint(s), Route(s), Track(s), or Map(s) selected in the Tab List or on the Graphic Map.

**Remove Waypoint(s) from Route**— Removes a selected waypoint from the selected route. For more information, see “Editing Routes” on page 54-55.

**Properties**— Activates the ‘Map’, ‘Route’, ‘Waypoint’, or ‘Track Properties’ dialog box, depending on the data item that is selected.

**Select All**— Highlights all data in the active Tab List and on the Graphic Map.

## Edit Menu: Preferences

This selection activates the setup functions for MapSource. Preferences are organized into an easy-to-use tabbed format, with 8 setup tabs to choose from: Display, Units, Position, File Location, Waypoint, Time, Find, and Routing. When you change any of the ‘Preferences’ settings, click the “Apply” button to see the changes take effect immediately or click “OK” to apply the changes and exit.

**Display Tab:** Use the slider control to adjust the amount of detail displayed on the Graphic Map (this setting does not affect the amount of detail transferred to the GPS) and options for displaying ‘Services’, ‘Spot Soundings’ and ‘Light Sectors’ on the Graphic Map. To change the font of the labels on the map, select the “Change Map Font” button.

### **Units Tab:**

**Distance/Speed:** Select Metric, Nautical, or Statute. All distance or speed measurements will reflect this setting.

**Heading:** Choose 'True', 'Automatic Magnetic Variation', 'User Magnetic Variation', 'Grid', or 'Cardinal Direction'. 'True' displays true North headings. 'Automatic' automatically calculates the magnetic variation for the geographical area. 'Grid' provides a true North heading as determined by the Position Format. When 'User' is selected, the field to the right is activated for entering a magnetic variation. When 'Cardinal Direction' is selected, your heading and/or course is displayed as N(orth), S(outh), E(ast), and W(est), etc. (Course information is found in the Data Tab section under Routes.)

**Altitude/Elevation:** Select Feet or Meters.

**Depth:** Select Feet, Meters, or Fathoms.

**Area:** Select Acres, Hectares, Square Feet, Square Miles, Square Meters, or Square Kilometers.

**Position Tab:** Select from the available grid formats or manually enter information for a user defined grid.

**Grid:** Select a grid format from the drop-down list.

**Datum:** Select from over 100 available map datums, allowing MapSource to easily match up with just about any paper chart or map, or manually enter information for a user defined map datum.

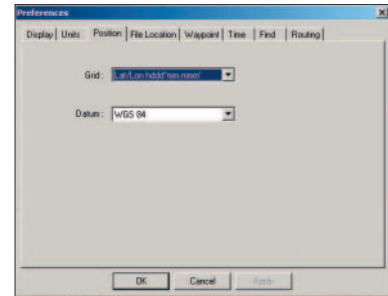
**File Location Tab:** This allows you to set up a default location on your computer for saving and opening your MapSource files, importing PCX5 data, and exporting .txt and .dxf data. Manually enter the location or click the "Browse" button to select the folder for your default file location.

**Waypoint Tab:** Sets up the preferences for creating waypoints in MapSource.

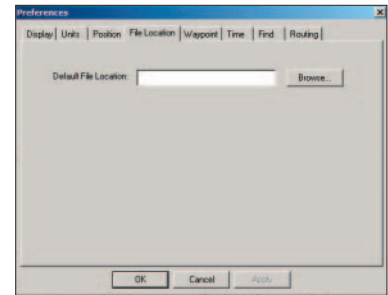
**Characters:** Use the drop-down menu or manually enter a number to limit the number of characters in waypoint names.

## User's Interface

### Edit Menu: Preferences



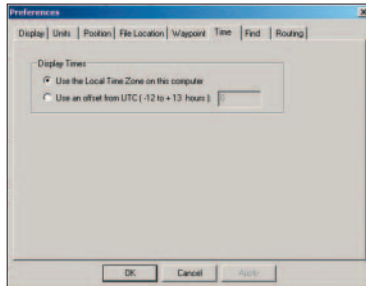
### Preferences—'Position' Tab



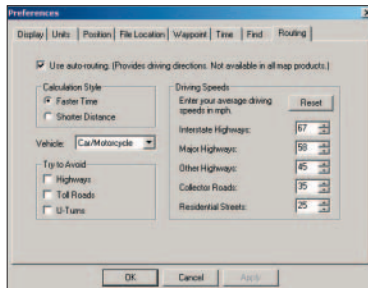
### Preferences—'File Location' Tab

# User's Interface

## Edit Menu: Preferences



Preferences—'Time' Tab



Preferences—'Routing' Tab

**Creating a Waypoint on a Map Feature:** Select between 'Let MapSource decide its name, symbol and display' and 'Use the choices above.' When you select 'Use the choices above,' you may manually enter a name prefix and/or use the drop-down menus to select a symbol and how the waypoint will be displayed on the Graphic Map.

**Time Tab:** Sets up displayed time, either by the computer's local time zone, or by entering a UTC offset.

**Find Tab:** This allows you to set the maximum number of places MapSource should find when searching for a particular feature, and set the maximum number of 'Recently Found' places you want MapSource to remember.

**Routing Tab:** Sets up preferences for automatic routing calculations when using a routable MapSource product. Select or deselect the auto-routing option. This option enables or disables the automatic calculation of turn-by-turn directions to a destination when you are establishing a route. Select, deselect, or set up the following for MapSource to automatically calculate a route: Calculation Style (Faster Time/Shorter Distance), Type of Vehicle, Avoid Highways, Avoid Toll Roads, Avoid U-Turns, and Average Driving Speeds on various types of roads. These features only apply to routable MapSource products. For more information, see "Creating Routes" on page 51-53.



## VIEW MENU

**Show Selected Item on Map**— When Waypoints, Routes, Map, or Tracks are selected in the Tab List, selecting this feature displays the selected item in the center of the Graphic Map. The menu heading changes to reflect the item(s) selected in the Tab List. For example, if a waypoint is selected in the Waypoints Tab List, the menu will read 'Show Selected Waypoint on Map'.

**Go To Position**— Allows you to enter a latitude/longitude position to view on the Graphic Map.

**Zoom In**— Decreases the zoom scale, showing a smaller area in more detail.

**Zoom Out**— Increases the zoom scale, showing a larger area in less detail.

**Zoom In Max**— Decreases the zoom scale to the smallest setting, showing the most detail.

**Zoom Out Region**— Increases the zoom scale to center on the region that is currently selected.

**GPS Map Detail**— With this item checked, MapSource shows the actual map info that will be loaded into the GPS. Unchecking this option will enable faster map drawing, and may reduce the need for a CD-ROM to be in your computer's CD-ROM drive.

**Show Crosshair**— When this item is selected, MapSource re-draws the map display to show a center point on the Graphic Map. A check mark next to this feature in the View Menu indicates that it is selected.

## User's Interface

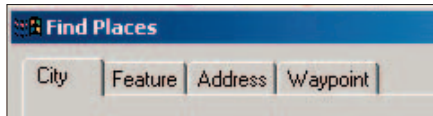
### View Menu

Show Selected Waypoint On Map	Ctrl+D
Go To Position...	Ctrl+T
Zoom In	+
Zoom Out	-
Zoom In Max	Ctrl +
Zoom Out Region	Ctrl -
✓ GPS Map Detail	Ctrl+G
Show Crosshair	Ctrl+H
Products	▶
Zoom Scale	▶
Toolbars	▶
✓ Status Bar	
Find Places...	Ctrl+F
Find Nearest Places...	Ctrl+Shift+F
Recently Found Places...	

### View Menu

# User's Interface

## View Menu



*Only certain MapSource products have the 'Feature' and 'Address' search tabs available. If your MapSource product does not support these options, the 'Feature' and 'Address' search tabs are not available.*

**Products—** Select a MapSource product to display on the Graphic Map. You can select a coverage area (on the graphic map) from any MapSource product that has been installed on your computer and unlocked (if required). For some MapSource products, if you select an area that has been installed, but the corresponding CD-ROM is not in your computer's CD-ROM drive, a message may prompt you to insert the proper CD.

**Zoom Scale—** Allows you to quickly select a zoom scale from a list.

**Toolbars—** Allows you to individually select/deselect the File, Edit, View, and Tools Toolbars to be shown or hidden on the PC screen. A check mark next to the toolbar name indicates those currently selected. You may also 'Hide All' or 'Show All' toolbars.

**Status Bar—** Allows you to show or hide the Status Bar at the bottom of the MapSource window. When this menu item is checked, the Status Bar is displayed.

**Find Places—** Allows you to search for a city, feature (point of interest), address or street, or a waypoint and view it on the Graphic Map. MapSource products include a 'Find Places' dialog with additional criteria to help narrow your search. The number of choices to search is determined by which MapSource product you own. With MapSource products that are installed by region, 'Find Places' only locates items within the regions installed.

**Find Nearest Places—** Allows you to find the nearest features relative to the center position of the map. If your right-click on any location, feature, or a waypoint (including waypoints in the Waypoint Tab list), you can search for the nearest features relative to that specific position on the map.

**Recently Found Places**— Allows you to select places recently found from your initial search. This is a good feature to use if you need to search for a feature, i.e. an address, you located previously.

### To find a City with the 'Find Places' feature and view it on the Graphic Map:

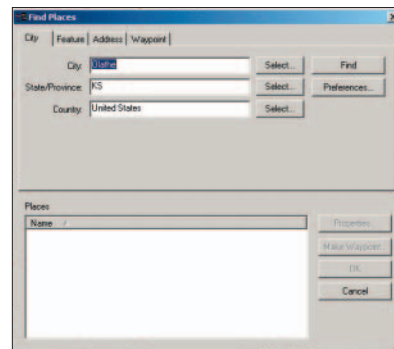
1. Select "Find Places" from the View Menu. The 'Find Places' dialog appears.
2. Under the City tab, enter a city name in the 'City' field (you may also enter information in the other fields to narrow your search). If you are unsure of the city name, click the "Select" button to the right of the 'City' field to show a list of city "matches." Highlight the desired city and click the "Select City" button.
3. With the desired city name entered in the 'City' field, click the "Find" button to show a list of city/state matches to choose from under 'Places'. The first match is displayed in the center of the Graphic Map and highlighted in the search results list.
4. Highlight the desired city and click the "OK" button to keep the selected city centered on the Graphic Map. To return to your previous map display, click the "Cancel" button. To make this city a waypoint, click the "Make Waypoint" button. In the Waypoint Properties menu, press the "OK" button to accept the city as a waypoint.



**NOTE:** Only cities in the selected region are listed. For example, if the selected region is Hawaii, cities in the continental U.S. will not be listed.

## User's Interface

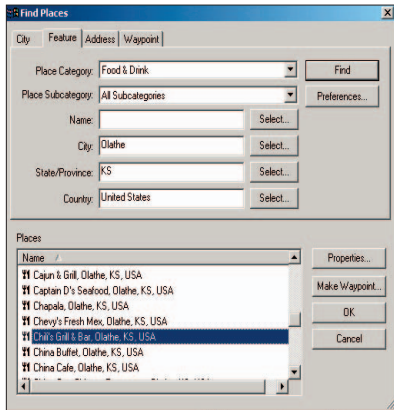
### View Menu



**'Find Places' Dialog: City Tab**

# User's Interface

## View Menu



**'Find Places' Dialog: Feature Tab**

### To find a Feature, Point of Interest (POI), with the 'Find Places' feature:

1. Select "Find Places" from the View Menu. The 'Find Places' dialog appears.
2. Under the Feature tab, choose a 'Place Category', and if necessary, a 'Place Subcategory'.
3. Enter the name of a Point of Interest in the 'Name' field. If desired, click the "Select" button next to the 'Name' field to select from a list of "matches" for that name to help narrow your search. To narrow your search use the 'Place Category'. If you do not know which category this feature is under, keep 'All Points of Interest' selected.
4. Enter the city, state or both to enable the "Find" button.
5. Select the Find button. The first match is displayed in the center of the Graphic Map and highlighted under 'Places'.
6. Highlight the desired Point of Interest.
7. To view the address and telephone number of the Point of Interest, click the "Properties" button (this may be helpful in distinguishing multiple Points of Interest with the same name). Click the "OK" button to exit the 'Properties' window. To make this feature a waypoint, click the "Make Waypoint" button. In the Waypoint Properties menu, press the "OK" button to accept the city as a waypoint.
8. To keep the selected point displayed in the center of the screen, click the "OK" button. To return to your previous map display, click the "Cancel" button.



**NOTE:** If you are using a MapSource product with unlocked data, the 'Find Places' feature only locates points of interest within the unlocked region, but it will locate cities both within and outside the region.

## To find an Address or street with the 'Find Places' feature:

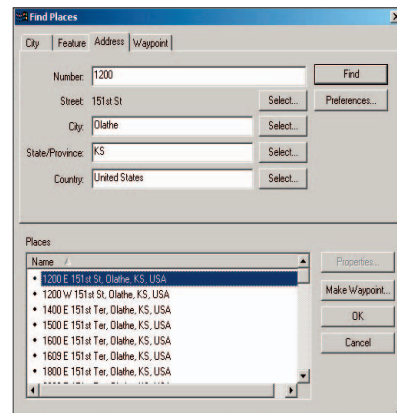
1. Select "Find Places" from the View Menu. The 'Find Places' dialog appears.
2. Under the Address tab, enter the number of the address in the 'Number' field.
3. Press the Select button on the 'Street' field, enter the primary street name. A list of street name "matches" appears to narrow your search. Highlight the desired street name from the list and click the "Select Address" button.
4. The full address (or the street name) appears in the 'Street' field. Enter the city, state, or both to enable the "Find" Button.
5. Select the "Find" button. The first matching location is centered on the Graphic Map and highlighted in the search results list. Highlight the desired location to view it on the map. If 'No items found' appears, try using another different "match" street name from the 'Street' field.
6. To return to your previous map display, click the "Cancel" button. Select "OK" to exit the advanced 'Find Places' window and keep the map centered on the highlighted address or street. To make this address a waypoint, click the "Make Waypoint" button. In the Waypoint Properties menu, press the "OK" button to accept the address as a waypoint.

## To find a Waypoint with the 'Find Places' feature:

1. Select "Find Places" from the View Menu. The 'Find Places' dialog appears.
2. Under the Waypoint tab, type the name of the waypoint you want to search in the 'Name' field. If you do not know the name of the waypoint, press the "Select" button to the right and choose the waypoint from the available list. Click on the "Select Waypoint" to select the highlighted waypoint and return to the 'Find Places' window.
3. With the waypoint in the 'Name' field, press the "Find" button to locate the waypoint. The first matching location is centered on the Graphic Map and highlighted under 'Places'. Highlight the desired location to view it on the map. (continued on next page)

## User's Interface

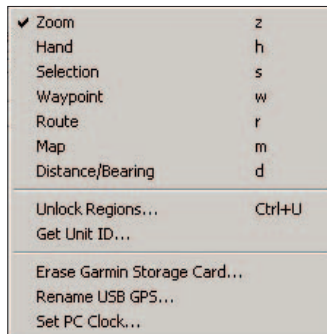
### View Menu



'Find Places' Dialog: Address Tab

# User's Interface

## Tools Menu



Tools Menu



You may also change the Zoom Scale by clicking the ZOOM IN or ZOOM OUT buttons, or by using the drop-down Zoom Scale list, all located in the View Toolbar.

4. To return to your previous map display, click the "Cancel" button, or select "OK" to exit the advanced 'Find Places' window and keep the map centered on the highlighted waypoint.

## TOOLS MENU

**Zoom Tool**— Enables you to quickly zoom to a specific area on the Graphic Map.

### To ZOOM IN on the Graphic Map:

1. With the *Zoom Tool* selected, click the left mouse button to ZOOM IN by one level and re-center the Graphic Map on that point.
2. To ZOOM IN on a defined area, click and hold the left mouse key and draw a box around the area.

### To ZOOM OUT on the Graphic Map:

1. With the *Zoom Tool* Selected, click the right mouse button to decrease the zoom scale by one step.



**NOTE:** Holding the *Ctrl* key while clicking the left mouse key will center the *Graphic Map* without changing the zoom level. Pressing the "+" and "-" keys on your keyboard also let you ZOOM IN and OUT.

**Hand Tool**— Allows you to quickly pan around the Graphic Map.

### To pan around the Graphic Map:

1. Place the *Hand Tool* on the Graphic Map, click and hold the left mouse button and drag the hand around the Graphic Map to view different areas. Release the mouse button to view the area. You may also use the Arrow Keys (**Up, Down, Left, Right**) on your keyboard as a shortcut to pan the Graphic Map in the desired direction.

**Selection Tool**— Allows you to select map features, waypoints, routes and tracks directly on the Graphic Map.

### To select an item on the Graphic Map:

1. Place the *Selection* Tool on the desired item. The item becomes highlighted in white and the name of the item is displayed in a white box. To view details about a map feature, click the right mouse button on the item and select “*Feature Properties*” from the options menu.
2. To select a waypoint or route for editing, click the left mouse button on the item. The route or waypoint is highlighted in yellow and can be edited. For more information on editing waypoints and routes, see “*Editing Waypoints*” on page 49 and “*Editing Routes*” on page 54.

**Waypoint Tool**— Allows you to quickly create waypoints on the Graphic Map. For detailed information on creating waypoints using the Waypoint Tool, see “*Creating Waypoints*” on page 47.

**Route Tool**— Allows you to quickly create or use existing waypoints on the Graphic Map to determine a route. For detailed information on creating routes using the Route Tool, see “*Creating Routes*” on page 51.

**Map Tool**— Allows you to select maps to be added to and removed from the Map Set. For more information, see “*Creating and Using Map Sets*” on page 40.

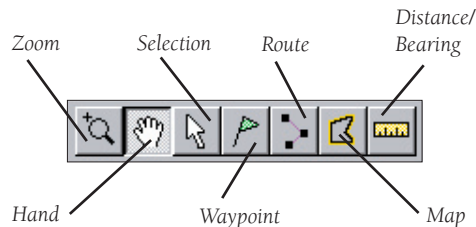
**Distance/Bearing Tool**— Allows you to measure the distance and bearing from one point to another on the Graphic Map.



**Note:** When using the single letter keyboard shortcut, the graphic map must be selected in order to see the tool on the mouse cursor. You also can toggle between the data tabs panel and the graphic map panel using the F6 key on your keyboard.

## User's Interface

### Tools Menu



### Tools Toolbar

The tools available in the ‘Tools’ menu can be accessed through Toolbar shortcuts or keyboard shortcuts. To activate a tool, click the shortcut on the Toolbar or enter the shortcut on the keyboard.

### Tools Keyboard Shortcuts

Zoom — z	Route — r
Hand — h	Map — m
Selection — s	Distance/Bearing — d
Waypoint — w	Unlock Codes — Ctrl + U

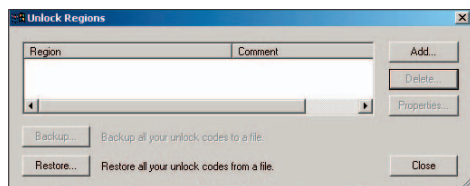
## User's Interface

### Tools Menu



### Distance/Bearing Tool

When using the Distance/Bearing tool, the distance and bearing from a beginning point to the cursor will be displayed in the Status Bar at the bottom of the MapSource application window.



### Unlock Regions

### To determine a distance and bearing:

1. Place the *Distance/Bearing Tool* at a “beginning” point on the Graphic Map and click the left mouse button.

OR:

1. With any tool selected (except the *Zoom Tool*), place the cursor at a “beginning” point on the Graphic Map, click the right mouse button and select “*Begin Measurement*”.
2. Move the tool/cursor to an “end” point and click the left mouse button. The distance and bearing from the starting point to the finishing point is displayed in the Status Bar.
3. You may continue to another “end” point, or click the right mouse button to end the operation. Select “*Cancel*” to stop measuring and keep the measurement displayed on the Graphic Map. Select “*Clear Measurement*” to stop measuring and clear the measurement from the Graphic Map.

**Unlock Regions**— Activates the Unlock Regions window, where you may view a list of unlocked map data, add, delete and view the unlock code properties, as well as backup and restore your unlock codes to a file on your computer. If you unlocked map data during installation, the unlock code will show in the list. If you chose not to unlock maps during installation, if you want to unlock another MapSource region, or if you want to unlock maps for a second Garmin GPS unit, you may do so using the ‘Unlock Regions’ window. See “Unlocking Maps” on pages 7-9 for more information.

**Get Unit ID**— Retrieves the Unit ID of your GPS unit. Select either Serial Port or USB GPS. Click the **OK** button to get the Unit ID. Make sure your GPS is connected to an available serial communication port or USB port on your computer. If you see the message “The GPS is not responding,” check your communication settings.



**Erase Garmin Storage Card**— Allows you to erase the entire Garmin storage card in a USB Data Card Programmer.

**Rename USB GPS**— Allows you to electronically name the Garmin USB GPS. This option is helpful if you have multiple Garmin USB GPS units and need the ability to differentiate between the models when you transfer MapSource information to and from the GPS units.

**Set PC Clock**— Allows you to synchronize the clock on your PC with the GPS clock. Click the **OK** button to set the PC Clock. Make sure your GPS is connected to a serial communication port or a USB port (if applicable) on your computer. If you see the message “The GPS is not responding,” you may need to check your Connection Settings.

## HELP MENU

**Contents**— Displays the Help Contents tab. A copy of MapSource’s Quick Tour can be found here for easy reference. (See page 11.)

**Index**— Displays the Help Index tab.

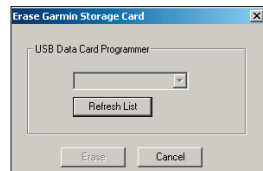
**About MapSource**— Displays the About Box. The About Box contains information about the MapSource application, including software version, USB driver versions, and a list of installed products.

**Go To MapSource Update Web Page**— Jumps to the ‘MapSource Updates and Downloads’ page of the Garmin web site, so you may check for the latest available version of MapSource software to download. To update MapSource, click the “Download” link and follow the directions on your computer screen. **NOTE:** This only updates the MapSource program, not the map data.

## User’s Interface

### Tools Menu/ Help Menu

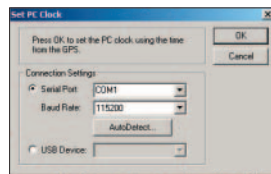
Erase Garmin  
Storage Card



Rename USB GPS



Set PC Clock



Contents

Index...

About MapSource...

Go To MapSource Update Web Page

### Help Menu

## User's Interface

### Right-Click Menu

Map Feature - "O'Connor's Pub"  
Map Feature - "Kiki's Bonton Maison"  
Map Feature - "Westport Rd"  
Waypoint - "OCONNORS"  
Route - "NW PNTG to HUNNWK"

*When you click the right mouse button on a location that has multiple features, the first menu is a list of all those items. Select one of these items and the appropriate right-click menu options will appear.*

New Waypoint...  
Begin Route  
Begin Measurement  
Find Nearest Places...

#### Right-Click: Menu Options

New Waypoint...  
Begin Route  
Begin Measurement  
Find Nearest Places...  
Show On Map  
Feature Properties...

#### Right-Click Map Feature: Menu Options

### RIGHT-CLICK MENUS

MapSource includes shortcuts to many functions of the main menus through the Right-Click Menus. With any tool selected (except the Zoom Tool), click the right button on your mouse anywhere on the Graphic Map and a menu of options appears for that feature or location. Right-clicking on an item in one of the Data Tabs also activates a menu of options for that item.

When there is more than one map feature at a given location (such as a waypoint that is part of a route), a list of those features appears first, with the name and type of feature. Select the desired feature from the list, and the right-click menus for that feature will appear.

#### Map Feature Right-Click Menu

By clicking the right mouse button on an open area or on a feature of the Graphic Map (such as a Point of Interest, Exit, Fishing Area or Navigational Aid—not a route, waypoint, or track), the following menu options may appear:

**New Waypoint**—Creates a new waypoint at the selected map location and accesses the 'Waypoint Properties' dialog. For more information, see "Creating Waypoints" on page 47.



**NOTE:** The 'New Waypoint', 'Begin Route', 'Begin Measurement', and 'Find Nearest Places' options are default right-click options. They are available by clicking the right mouse button anywhere on the Graphic Map.

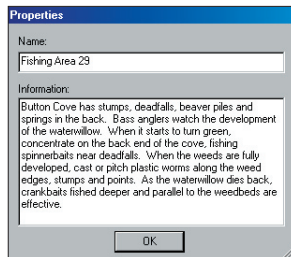
**Begin Route**— Activates the Route Tool and begins a route at the selected map location. For more information, see “Creating Routes” on page 51.

**Begin Measurement**— Activates the Distance/Bearing Tool, allowing you to measure the distance and bearing from the location you selected to another location on the Graphic Map. For more information, see “Distance/Bearing Tool” on pages 29-30.

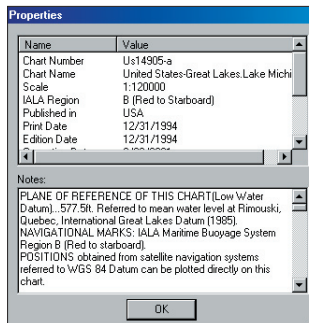
**Find Nearest Places**— locates nearest features from that given point. For more information, see “Find Nearest Places” on pages 24-28.

**Show on Map**— “Zooms” to the selected map feature and centers it on the Graphic Map.

**Feature Properties**— Activates the Properties for the selected map feature, such as the address and phone number of a Point of Interest, US Interstate exit service info, information about a Fishing Hot Spot or Lake, or details about a Marine Chart.



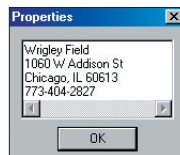
**Map Feature Properties—  
Fishing Hot Spots**



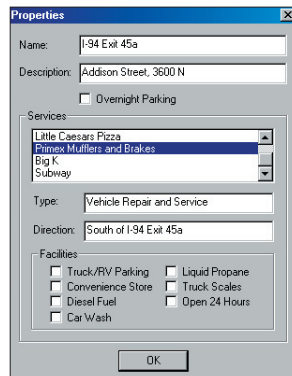
**Map Feature Properties—  
BlueChart**

## User's Interface

### Right-Click Menus



**Map Feature Properties—Point of Interest**



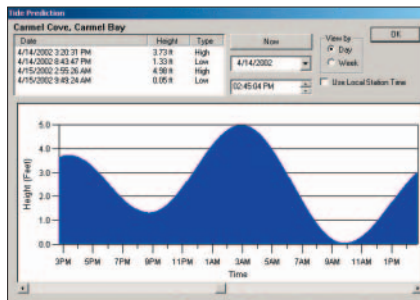
**Map Feature Properties—Exit Services**

## User's Interface

### Right-Click Menu



**Tide Station Symbol**



**'Tide Prediction' Window**

**Predict Tides**— If your MapSource product supports this feature, using the *Selection* tool, right-click the Tide Station, select the Tide Station “Name” from the menu, then select ‘Feature Properties’. On the ‘Tide Prediction’ window, you may also view the tide information for a different time or date, choose to view the information either by day or by week, and choose to view it using the local station time.

**Show This Map Only/Show All Maps**— This feature applies to BlueChart regions of MapSource, where map areas frequently overlap. With the Map Tool selected and a map area highlighted in yellow, right-clicking the map area will access this additional option. Select “*Show This Map Only*” to view detail only within the selected map. To cancel, right-click the map area again and select “*Show All Maps*”.



**'Show This Map Only' Feature**

## Waypoint Right-Click Menu

By clicking the right mouse button on a waypoint on the Graphic Map or a waypoint name in the Waypoints Tab List, the following options may appear:

**Move Waypoint**— Activates the Selection Tool and allows you to move the selected waypoint to another location on the Graphic Map. For detailed information on moving a waypoint, see “Editing Waypoints” on page 49.

**New Waypoint, Begin Route, Begin Measurement, Find Nearest Places**— see pages 32-33 for descriptions of these options.

**Remove Waypoint From Route**— Selecting this option removes the selected waypoint from the route, but does not delete the waypoint (this option is only enabled if the selected waypoint is a route waypoint). For more information, see “Editing Routes” on page 54.

**Cut/Copy/Paste**— Just like the functions in the Edit Menu, these options allow you to cut, copy, and paste waypoints from one active MapSource document to another.

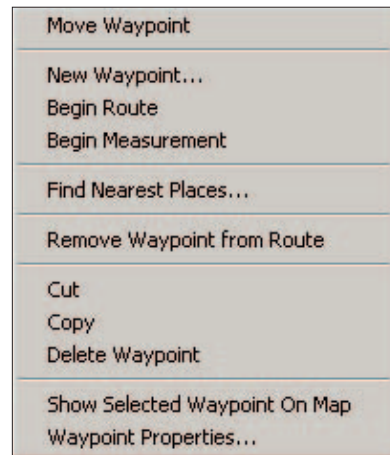
**Delete Waypoint**— Deletes the selected waypoint.

**Show Selected Waypoint on Map**— “Zooms” to the selected waypoint and centers it on the Graphic Map.

**Waypoint Properties**— Activates the ‘Waypoint Properties’, allowing you to review and edit the properties for the selected waypoint. For more information, see “Editing Waypoints” on page 49.

## User’s Interface

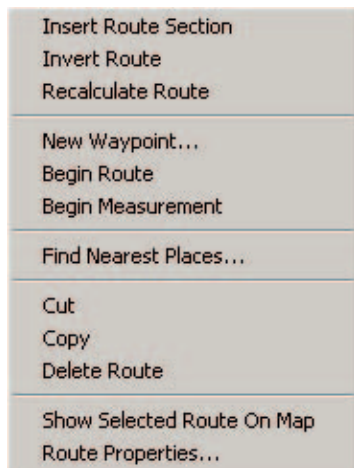
### Right-Click Menus



**Waypoint Right-Click Menu Options**

## User's Interface

### Right-Click Menus



#### Route Right-Click Menu Options

### Route Right-Click Menu

By clicking the right mouse button on a route on the Graphic Map or a route name in the Routes Tab List, the following options may appear:

**Invert Route**— Reverses the waypoint order in the selected route. This also reverses the route name, if the route name is the Autaname default “<begin point> to <end point>”.

**Recalculate Route**— If you have modified the Autorouting Preferences (see page 22), selecting this option recalculates the selected route according to the new preferences. You may also use this option to have a routable MapSource product recalculate and create an automatic route from a route previously created with another (non-routable) MapSource product.

**New Waypoint, Begin Route, Begin Measurement Find Nearest Places**— see pages 32-33 for descriptions of these options.

**Cut/Copy/Paste**— Just like the functions in the Edit Menu, these options allow you to cut, copy, and paste routes from one active MapSource document to another.

**Delete Route**— Deletes the selected route.

**Show Selected Route on Map**— “Zooms” to the selected route and centers it on the Graphic Map.

**Route Properties**— Activates the ‘Route Properties’, allowing you to review and edit the properties for the selected route. For more information, see page 52.

## Additional Right-Click Menu options that may appear for a selected route:

**Resume Route**— By selecting a route, then right-clicking the start or end point of that route, this options appears allowing you to extend the route to an existing waypoint or map location.

**Insert Route Section**— By selecting a route, then right-clicking a leg of that route (between two waypoints) on the Graphic Map, this option appears, allowing you to insert a new point in that leg of the route. For more information, see “Editing Routes” on page 54.

**Replace Route Section**— By selecting a route with at least three waypoints, then right-clicking a waypoint in that route on the Graphic Map, this option appears, allowing you to move the waypoint to a new location. For more information, see “Editing Routes” on page 54.

## Track Right-Click Menu

By clicking the right mouse button on a track on the Graphic Map or a track name in the Tracks Tab List, the following options may appear:

**New Waypoint, Begin Route, Begin Measurement, Find Nearest Places**— see pages 32-33 for descriptions of these options.

**Cut/Copy/Paste**— Just like the functions in the Edit Menu, these options let you cut, copy, and paste tracks from one active MapSource document to another.

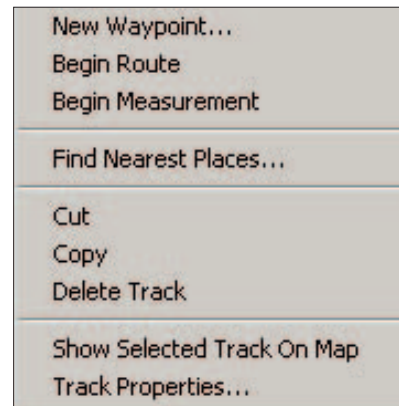
**Delete Track**— Deletes the selected track.

**Show Selected Track on Map**— “Zooms” to the selected track and centers it on the Graphic Map.

**Track Properties**— Activates the ‘Track Properties’, allowing you to review and edit the properties for the selected track. For more information on Tracks, see page 59.

## User’s Interface

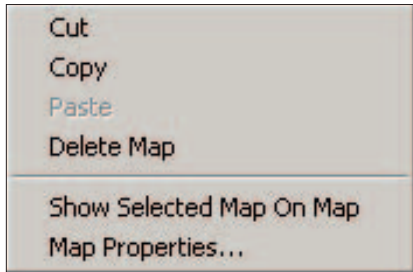
### Right-Click Menus



Track Right-Click Menu Options

## User's Interface

### Right-Click Menus



Maps Tab List Right-Click Menu Options

### Maps Tab List Right-Click Menu

By clicking the right mouse button on a map name in the Maps Tab List, the following options map appear:

**Cut/Copy/Paste**— Just like the functions in the Edit Menu, these options let you cut, copy, and paste maps from one active MapSource document to another.

**Delete Map**— Deletes the selected map from the Maps Tab List.

**Show Selected Map on Map**— “Zooms” to the selected map and centers it on the Graphic Map.

**Map Properties**— Activates the ‘Map Properties’, which shows the name, type of coverage area, and size of the map. For more information on maps, see “Creating and Using Map Sets” on page 40.



In this section you will learn how to operate MapSource. It covers how to move around the map, create map sets, transfer data, types of MapSource Documents, creating and editing waypoints, creating and editing routes, tracks, and real-time tracking.

## HOW TO MOVE AROUND THE MAP

Before you can select map sets, create waypoints, or routes, you first need to learn how to move around the map. There are a few methods you can use to quickly get to the area you want on the Graphic map.

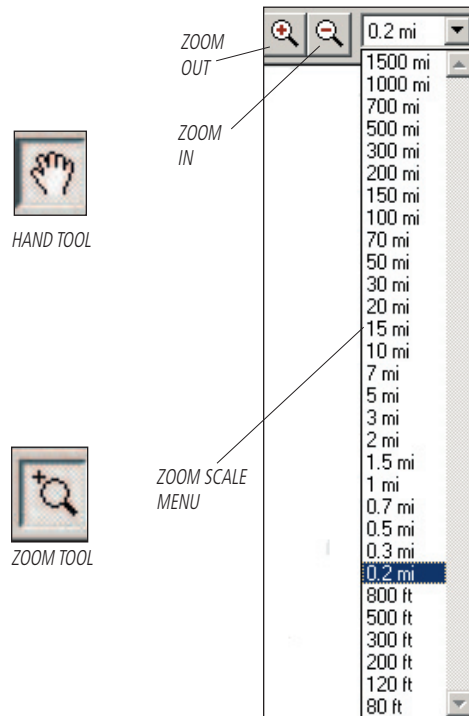
- Use the Hand Tool. Your mouse cursor changes to a hand over the graphic map. Press and hold the left mouse button and move the mouse in the direction you want to move the map.
- Use the scroll bars on the right-side and at the bottom of the map.
- Use the **Up**, **Down**, **Left**, and **Right** arrow keys on the keyboard. Hold the **Ctrl** button down while pressing a directional key to move a full screen in length.

To ZOOM IN and OUT of the map, you can:

- Press the ZOOM IN or ZOOM OUT buttons on the View toolbar.
- Select the *Zoom Tool* from the Tools menu or press the **z** button on your keyboard to active the zoom. Click the left mouse button once on the map to ZOOM IN and right click once to ZOOM OUT. Click and hold the left mouse button and drag the mouse to create a box over the desired area.
- Use the Zoom Scale menu on the View toolbar to zoom straight to the desired level.
- Press the **Plus (+)** or **Minus (-)** keys on the numberpad of your keyboard. The **Plus** key ZOOMS IN and the **Minus** key ZOOMS OUT.

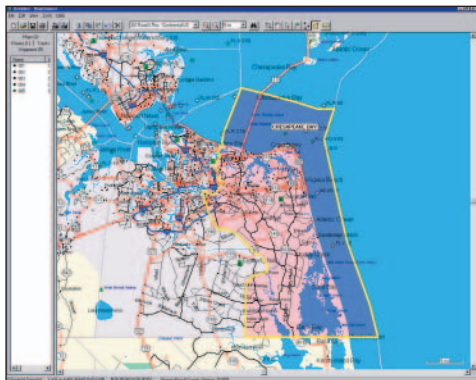
## Reference

### Move Around the Map



## Reference

### Map Sets



#### Selecting a Detailed Regional Map

When the 'Map' Tool is placed within the boundaries of a detailed map, the border of the detailed map is outlined in yellow. To select the map, click the mouse while the border is selected. When the map is added to the Map Set, the area of the detailed map will be shaded in pink.

**NOTE BLUECHART OWNERS:** Once maps are selected they are outlined in pink not shaded in pink.

## CREATING AND USING MAP SETS

### What is a Map Set?

A Map Set is one or more detailed area maps selected from the Graphic Map to be saved for use on your Garmin GPS unit. The detailed areas are determined by the MapSource data that you have loaded. You can select maps from more than one MapSource data source in a Map Set, but you will only see data from one data source on your GPS if the maps overlap. The maps are not transparent on the GPS unit and cannot be combined. If two maps from different MapSource products overlap on the GPS unit, you need to turn the overlapping map off in order to see the other map underneath. Check your GPS unit's Owner's manual on how to turn MapSource downloaded maps on or off.

As an example, if you select both Topographical and Roads & Recreational data for the same geographical area, you WILL NOT see a combination of topographic and road data. You only see data from the Roads & Recreation data set. In order to see the Topographical data, turn the Roads & Recreational data off in the Garmin GPS unit.

After selecting map sets from the graphic map, the names of the maps are placed in a list form under the Maps Data tab on the left side of the screen. You can view the name of the map area, what MapSource program the map comes from, and how much memory it requires for download.



---

**NOTE:** *Not all Garmin GPS systems can use detailed maps. Check your GPS owner's manual to see if your unit is compatible.*

---

## To select area maps using the Map Tool:

1. Select a Zoom Scale that allows you to view the boundaries of the desired area map (most can be seen at the 30 mile/50 km zoom scale).
2. Choose “Map” from the Tools Menu. When the Map Tool is located within a detailed map, the borders of the area are outlined in yellow and the map name/memory requirement will be displayed in the Status Bar. The MapSource data that you have loaded determines the geographical map boundaries, and each product has different boundary areas.



**NOTE:** If you have a MapSource product with map areas that are available for purchase separately, you will only be able to select those maps that you have purchased and installed on your computer.

## To add a map to the Map Set/Maps Tab List:

1. Click the left mouse button in the selected area. To choose several maps, click and drag the mouse to draw a box through the different areas on the Graphic Map. As you add maps, they are shaded in pink. The number of maps and the memory required to store the maps is displayed at the bottom of the Maps Tab to the left of the screen.

At the bottom of the Maps Tab List, you will see the number of selected maps and the required memory for the Map Set.

## Reference

### Map Sets



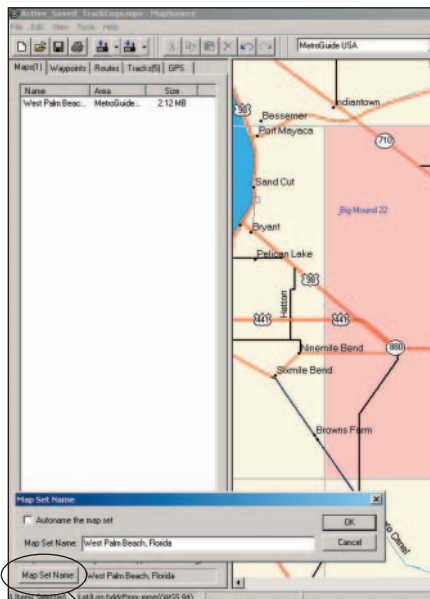
When you have added all the maps to the Map Set that you want, click the ‘Save To’ button in the toolbar to save the maps to your GPS unit or a storage card. See page 43 for more information on transferring data.



**NOTE:** If you have the MapSource Setup CD, you can view a MapSource Tutorial to show you how to select maps and download them to your Garmin GPS.

## Reference

### Map Sets



Naming a Map Set

### Removing a map from the Map Set/Maps Tab List:

1. Place the Map Tool inside the border of the region that you want to deselect and click the left mouse button. To remove several maps at once, hold the **Ctrl** key and click and drag the mouse to draw a box through the regions on the Graphic Map.

OR:

1. Highlight the desired regional map in the Maps Tab list. To select several maps, hold down the **Shift** key on your keyboard and highlight the desired maps. Click the right mouse button and select "**Delete Map**", or select "**Delete Map**" from the Edit Menu, or press the **Delete** key on your keyboard.

Also at the bottom of the Maps Tab List, there is a box you can check to include route calculation data. The Route Calculation box should be checked if you GPS unit supports autorouting. If you do not own a MapSource product that supports autorouting, this field is disabled.

### Naming/Renaming a Map Set

The "Map Set Name" button and 'Name' field are located along the bottom of the Maps Tab List. MapSource automatically names a Map Set when it is created.

### To Rename a Map Set:

1. Click the "Map Set Name" button located along the bottom of the Maps Tab List.
2. Verify that the Autoname checkbox located on the 'Map Set Name' dialog box is not selected.
3. Enter a new name in the 'Name' field and click the "OK" button.

## Map Properties

The name, type of coverage area, and size of the map can be viewed in the 'Map Properties' window by doing one of the following:

- Double-click the map name in the Maps Tab List
- Highlight the map name and press Enter
- Right-click the map name and select "Map Properties"

## TRANSFERRING DATA

In MapSource, map sets, waypoints, routes, and tracks may be transferred from the MapSource program to a Garmin GPS unit/Storage Card (Save To) or from a Garmin GPS unit/Storage Card to the MapSource program (Open From). The data is transferred from the following methods:

- To the internal memory of a Garmin GPS unit, which accepts all data types: maps (if applicable), waypoints, routes, and tracks. You can transfer through a Serial Port or a USB Port (if applicable).
- To a Storage Card in a Garmin GPS unit via a serial or USB port (if applicable). The storage card accepts all data types, but only some Garmin GPS units are capable of reading all data types. All Garmin GPS units, however, are capable of reading the map data.
- To a Garmin storage card in a Garmin USB data card programmer. All data types may be transferred.
- To a Storage Card in a Card Reader connected to your computer. Depending what card type your Garmin GPS unit supports, the available card types are Compact Flash (CF) or Secured Digital (SD) Cards. All data types may be transferred.
- To a Secured Digital (SD) Card in a Garmin iQue or to the unit's internal memory. Only maps may be transferred. Maps are saved and transferred to the iQue during the next HotSync operation. iQue users may also transfer tracks from the iQue to MapSource.

## Reference

### Map Sets/Transferring Data



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*The USB Data Card Programmer will only operate with Windows 98, Windows 2000, Windows ME, or Windows XP.*

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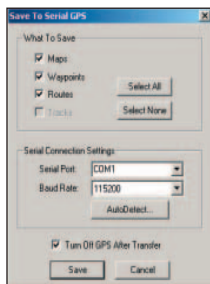
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**NOTE:** *Preprogrammed BlueChart or Fishing Hot Spots data cards should not be used in the USB Programmer or in a GPS unit for saving MapSource maps. The data will be lost. If you have a BlueChart or Fishing Hot Spots data card in your GPS unit, remove it before transferring map sets to the unit to avoid losing the preprogrammed data. If you choose to overwrite the preprogrammed data on a BlueChart or Fishing Hot Spots data card, Garmin will not replace or recover the lost data.*

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## Reference

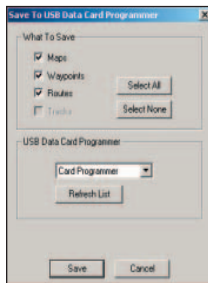
### Transferring Data



Save To: Serial GPS



Save To: USB GPS



Save To: USB Data Card Programmer

### Information on Storage Cards

You have the option to transfer all data types in MapSource to a removable storage card. Following are the possible scenarios when transferring MapSource data:

- Transferring only maps to the storage card: The storage card is completely erased before adding new maps
- Transferring both maps and data (waypoints, routes, and tracks): The storage card is completely erased before adding new maps and new data to the storage card:
- Transferring only data: There are two scenarios. 1) If the data card currently has maps stored on it, then the maps will stay on the storage card and the data is erased and replaced with new data. 2) If the data card contains no maps, then the storage card is completely erased and replaced with new data.

### Pre-Loaded Map Data

If your GPS unit includes a pre-loaded Points of Interest (POI) database, you will see a warning about erasing the pre-loaded data (not the basemap of the GPS unit) before you save MapSource maps. The pre-loaded data can be recovered to your GPS unit by downloading it from the Garmin web site:

1. Go to [www.garmin.com](http://www.garmin.com)
2. Click “Support”, then “Software Updates”
3. Select the name of your Garmin GPS unit
4. Click the “Download” link below ‘Download Preloaded Marine POI Database’.

Any MapSource maps on your GPS unit will be erased and replaced with the POI database.



**Note:** Not all data transfer options will be available in MapSource unless you own the specific GPS unit.

## To transfer MapSource data to a device:

1. If the GPS holds a storage card, be sure the card is inserted correctly in the unit. Also, be sure the unit is properly connected to the computer, and that the unit's transfer mode is set to Garmin. (Refer to your GPS Owner's Manual for further instructions.)
2. Select "Save To" in the File Menu and choose your device type. In the 'What To Save' dialog, select the data type for transfer by placing a check mark in the box(es) next to the type of data you want to save, or click the "Select All" button.
3. If saving to a Serial GPS: In the 'Serial Connection Settings' dialog, you may modify the communication settings by selecting a different Port or Baud Rate, or have MapSource automatically detect the Port and Baud Rate of your connection by clicking the "Auto Detect" button.
4. If saving to a USB GPS: In the 'USB GPS' dialog, the name of your Garmin USB GPS appears along with the unit's software version number (default). If you have changed the name of the device, the new name appears.
5. If saving to the USB Card Programmer: The 'USB Data Card Programmer' dialog appears with 'Card Programmer'.
6. If saving to the Card Reader: In the 'Storage Card Reader' dialog box, select the drive letter that obtains the storage card if you have more than one drive on your card reader.
7. If saving to the iQue: In the 'iQue Settings' dialog, select the 'User' name and 'Location' of where you want to place the MapSource data, internal or external storage.
8. Under these settings, you may also choose to 'Turn Off GPS After Transfer' by placing a check mark in the box. Click the "Save" button to begin data transfer. As the transfer takes place, MapSource displays a progress indicator and the GPS displays a message indicating that the data is transferring.

## Reference

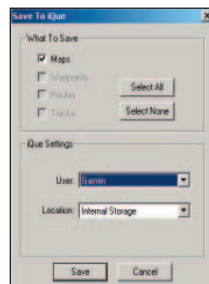
### Transferring Data



Save To: Card Reader



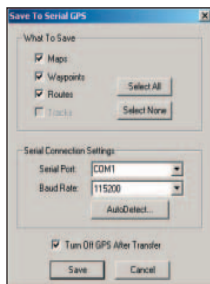
**NOTE:** In order for MapSource to locate your Card Reader, it must not be set to drive letters A:\ or B:\.



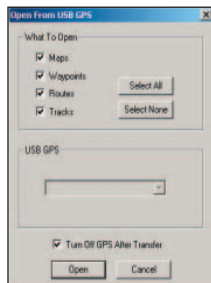
Save To: iQue

## Reference

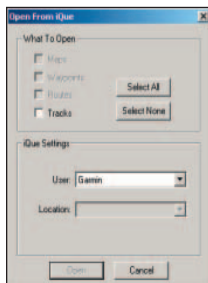
### Transferring Data



Open from:  
Serial GPS



Open From:  
USB GPS



Open From:  
iQue

### To transfer data to MapSource from a device:

1. If transferring maps from a storage card in a GPS, USB Card Programmer, Card Reader, or iQue be sure the card is inserted correctly in the unit. Also, be sure the unit is properly connected to the computer and the unit's transfer mode is set to Garmin. (Refer to your GPS Owner's Manual for further instructions.)
2. Select "Open From" in the File Menu and choose your device type. In the 'What To Open' dialog, select the data type for transfer by placing a check mark in the box(es) next to the type of data you want to open, or click the "Select All" button.
3. If transferring by Serial GPS: In the 'Serial Connection Settings' dialog, you may modify the communication settings by selecting a different Port or Baud Rate, or have MapSource automatically detect the Port and Baud Rate of your connection by clicking the "Auto Detect" button.
4. If transferring by USB GPS: In the 'USB GPS' dialog, the name of your Garmin USB GPS appears along with the unit's software version number (default). If you have changed the name of the device, the new name appears.
5. If transferring by USB Card Programmer: The 'USB Data Card Programmer' dialog appears with "Card Programmer".
6. If transferring by your Card Reader: In the 'Storage Card Reader' dialog box, select the drive letter that obtains the storage card if you have more than one drive on your card reader.
7. If transferring by the iQue: In the 'iQue Settings' dialog, select the 'User' name and 'Location' of where you want to place the MapSource data, internal or external storage.
8. Under these settings, you may also choose to 'Turn Off GPS After Transfer' by placing a check mark in the box. Click the "Open" button to begin data transfer. As the transfer takes place, MapSource displays a progress indicator and the GPS displays a message indicating that the data is transferring.



## CREATING WAYPOINTS

A waypoint is a geographic location stored in memory. Waypoints can be created in MapSource using the Waypoint Tool or the 'Waypoint Properties' dialog box. When a waypoint is created, MapSource automatically assigns a name to the waypoint based on its location. If you created the waypoint on a map feature, the waypoint name will be an abbreviation of the name of the feature. If the waypoint is created on an open location, MapSource will assign a numeric name to the waypoint. All waypoint properties can be changed, allowing you to customize the waypoint for display and use.

### Creating a Waypoint with the Waypoint Tool

The Waypoint Tool can be selected three ways: by choosing *Waypoint* in the Tools Menu, by clicking on the Waypoint Tool icon in the Tools Toolbar, or by using the keyboard shortcut, **w**. Using **Ctrl+w** creates a waypoint in the center of the map and the 'Waypoint Properties' window automatically appears.

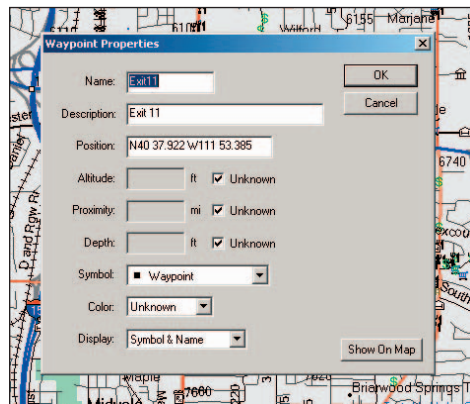
When the Waypoint Tool is selected, a flag similar to the Waypoint Tool icon will appear beside the mouse pointer on the Graphic Map.

#### **To create a Waypoint on the Graphic Map:**

1. With the Waypoint Tool selected, position the mouse pointer at a location on the Graphic Map.
2. Click the left mouse button, or click the right mouse button and select "New Waypoint". The 'Waypoint Properties' dialog box appears.
3. Make any desired changes to the 'Waypoint Properties', then click the "OK" button to save the new waypoint. To reject the waypoint click the "Cancel" button.

## Reference

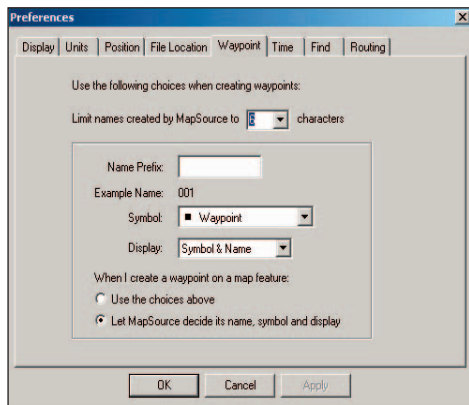
### Creating Waypoints



#### **Creating a Waypoint**

*When you create a Waypoint on the Graphic Map, the 'Waypoint Properties' dialog box is displayed. To accept the new waypoint as is, press 'OK'. To reject the waypoint click on 'Cancel.'*

### Creating Waypoints



*Remember that you can set up preferences for creating waypoints on the Waypoint Tab under Preferences in the Edit Menu.*

### Creating a Waypoint with the Waypoint Properties

A waypoint can also be created based on the center of the Graphic Map display by using the Waypoint Properties.

#### **To create a Waypoint with the Waypoint Properties:**

1. Select "New Waypoint" from the Edit Menu. This displays the 'Waypoint Properties' dialog box. MapSource assigns a name and location based on the center of the Graphic Map.
2. Make any desired changes to the 'Waypoint Properties', then click the "OK" button to save the new waypoint. To reject the waypoint, click the "Cancel" button.

### Things to remember about Waypoints:

- When changing the name or description, remember that Garmin GPS products can only display a limited number of characters. The name or description is truncated in the GPS if it exceeds the unit's limit. If multiple waypoints have identical names after truncation, only one of the waypoints will be stored in the GPS. Refer to your GPS owner's manual to determine your GPS unit's limitations.
- All MapSource waypoints can contain proximity information. If your GPS is capable of using proximity waypoints and new waypoints that contain a proximity range are saved to your GPS, then all waypoints in the GPS unit's proximity list will be deleted and replaced with the new MapSource waypoints.
- If you select a symbol that does not exist in your GPS, the waypoint will be represented by a square when transferred to your GPS.

## EDITING WAYPOINTS

Most editing features for waypoints can be performed in the 'Waypoint Properties' dialog box. To activate the 'Waypoint Properties', do one of the following:

- Double-click a waypoint name in the Waypoints Tab List
- Double-click a waypoint on the Graphic Map
- Highlight a waypoint in the Waypoints Tab List or on the Graphic Map, then select "Waypoint Properties" from the Edit Menu
- Highlight a waypoint in the Waypoints Tab List or on the Graphic Map, then click the right mouse button and select "Waypoint Properties"

### Waypoint Properties

There are nine properties that can be modified for the selected waypoint: Name, Description, Position, Altitude, Proximity, Depth, Symbol, Color, and Display. You may also choose to center the waypoint on the Graphic Map by clicking the "Show on Map" button.

**Name**— Most Garmin GPS systems limit the name to six characters. If the length of the name exceeds the limitations of your unit, the name is truncated when transferred.

**Description**— A description can be entered to help identify the waypoint. Garmin GPS units have a maximum number of characters allowed in the description field. If the description that you enter exceeds the unit limitation, the description is truncated. Refer to the GPS unit's owner's manual to determine your unit's limitations.

## Reference

### Editing Waypoints

The screenshot shows the 'Waypoint Properties' dialog box. The fields are as follows:

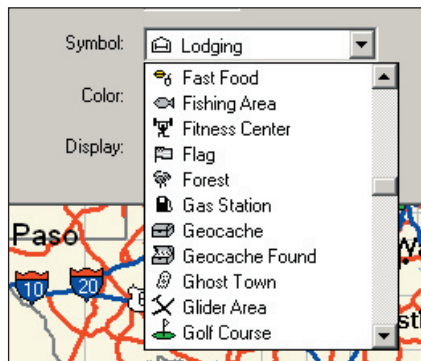
- Name: SkyHar
- Description: Sky Harbor Intl Executive Terminal
- Position: N33 26.260 W112 01.202
- Altitude: [ ] ft ☒ Unknown
- Proximity: [ ] mi ☒ Unknown
- Depth: [ ] ft ☒ Unknown
- Symbol: Airport (dropdown)
- Color: Unknown (dropdown)
- Display: Symbol & Name (dropdown)

Buttons: OK, Cancel, Show On Map.

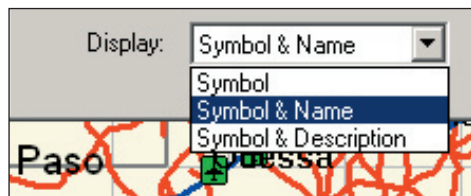
**'Waypoint Properties' Dialog Box**

## Reference

### Editing Waypoints



**Waypoint Properties: Symbol**



**Waypoint Properties: Display**

**Position**— The coordinates of the waypoint are displayed in the 'Position' field. The coordinates is displayed according to the Position Format set up in Preferences. Enter new coordinates to change the position of the waypoint.

**Altitude**— If known, you can enter an altitude for the waypoint. If the altitude is unknown, place a mark in the 'Unknown' checkbox.

**Proximity**— Enter a range for a proximity warning. This property is not used by all Garmin GPS systems. If you don't want to include Proximity data or if your unit is not compatible with proximity data, place a mark in the 'Unknown' checkbox.

**Depth**— Enter a depth for underwater waypoints. This is only compatible with GPS/Sounder combination units. If the depth is unknown or you unit is not compatible, place a mark in the 'Unknown' checkbox.

**Symbol**— Allows you to choose from over 100 different symbols. If you select a symbol that is not supported by your GPS system, it will be represented with a square symbol.

**Color**— This property allows the user to select from 16 colors for the waypoint. This property does not apply to all Garmin GPS systems. Refer to your GPS owner's manual to determine if your unit is capable of displaying waypoint colors.

**Display**— Allows you to choose how the waypoint will be displayed. There are three settings to choose from: Symbol only, Symbol and Name, or Symbol and Description.

**Show On Map**— Centers the waypoint on the Graphic Map while keeping the 'Waypoint Properties' window open. You may need to move the 'Waypoint Properties' window to see the waypoint on the map.

## CREATING ROUTES

There are two ways to create a route in MapSource—on the Graphic Map with the Route Tool, or with the 'Route Properties' dialog box. Depending on the MapSource product you are using, you may create a direct route (a straight-line route or “As the crow flies”), or an automatic route (turn-by-turn).



**NOTE:** *Not all MapSource products can create an automatic route. You must be using a routable MapSource product for MapSource to automatically calculate a route.*

### Using the Route Tool

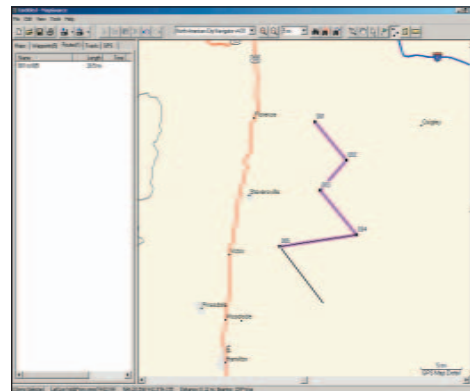
The Route Tool can be selected several ways: by choosing *Route* in the Tools Menu, by clicking on the Route Tool icon in the Tools toolbar, and by using the keyboard shortcut, **Ctrl+r**. You may also start a route by clicking the right mouse button on the desired starting point on the Graphic Map, and then selecting *Begin Route*.

#### To create a direct route with the Route Tool:

1. After selecting the *Route Tool*, click the waypoints or map locations in the sequence you want them to appear in the route. If there is not a waypoint where you click, a new waypoint will be created at that location. As you continue, route legs are created in a direct line from one point to the next.
2. When you have entered all of the points that you want in the route, press **Esc** on your keyboard or right-click to end the route. The route is created and automatically named using the names of the first and last waypoints.

## Reference

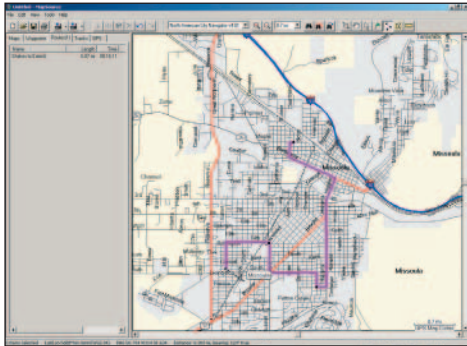
### Creating Routes



**Creating a Direct Route with the Route Tool**

## Reference

### Creating Routes



#### Creating an Autoroute with the Route Tool

#### To create an automatic route with the Route Tool:

1. Follow the previous directions for "Creating a direct route with the Route Tool."
2. With a routable MapSource product, MapSource automatically calculates a turn-by-turn route. The auto-route is displayed on the Graphic Map, along the roads it follows, instead of showing a direct line from one point to the next. Detailed information about an auto-route's turns can be viewed in the 'Directions' tab of the 'Route Properties'.

#### Using the Route Properties

You may create a route with the Route Properties by inserting waypoints, and with some MapSource products, you may also insert points of interest, cities, or addresses through the Find feature. Start a new route with the Route Properties by selecting *New Route* in the Edit Menu or by using the keyboard shortcut, **Ctrl + r**.

#### To create a direct route (straight line) with the Route Properties:

1. With the 'Route Properties' dialog box displayed, click the "Find" button.
2. Under the Waypoint tab, type in the name of the waypoint you want to find, or click the "Select" button to display the 'Select Waypoint' dialog box. The waypoint or a list waypoints appears.
3. Highlight the waypoint that you want to insert, then click "Find" again to search.
4. Under 'Places' the waypoint appears. With the waypoint highlighted, click the "Add to Route" button to add the waypoint to the route. If enabled, you may also use the "Find" button to search for a city or point of interest to add to the route (see pages 24-27 for more information on using the 'Find Places' feature). The route points or 'Via Points' are listed in the 'Route Properties' as they are added to the route.
5. Repeat steps 1-4 to add via points to the end of the route. When finished, click the **OK** button to save the new route.

## To create an automatic route with the Route Properties:

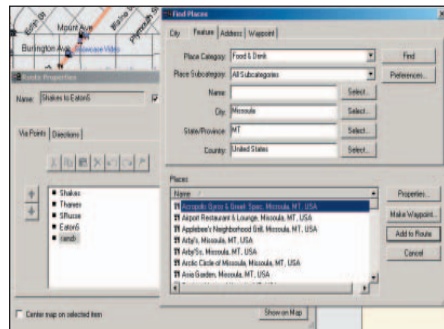
1. Follow the previous directions for "Creating a direct route with the Route Properties."
2. With a routable MapSource product, MapSource automatically calculates a turn-by-turn route. As you add points, the directions and turns are listed between each waypoint in the 'Directions' tab of the 'Route Properties' dialog box. The automatic route displays the roads it follows on the Graphic Map, instead of showing a direct line from one point to the next.

## To add a map location to an automatic route with the Route Properties:

1. Under the 'Via Points' tab, select a point in the route where you want to add a map location. To add a map location at the end of the route, highlight the blank space at the end of the route list. To add a point anywhere else, click the via point in the list that follows the location you add.
2. Click the "Find" button. The 'Find Places' dialog box appears, allowing you to search, if applicable, for a city, point of interest, address, or waypoint to add to the route. See pages 24-27 for more information on using the advanced 'Find Places' feature.
3. When you have found the desired map location, click "Find" to add it to the 'Places' list.
4. Click the "Add to Route" button in the advanced 'Find Places' dialog box. The map location is added directly before the point you selected in the route.
5. Click "OK." MapSource automatically calculates the new location into the route.

## Reference

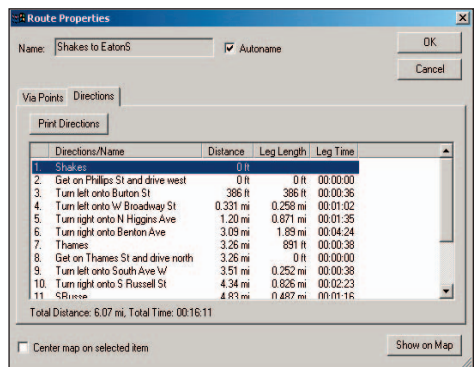
### Creating Routes



### Route Properties: Find Feature

## Reference

### Editing Routes



#### The 'Route Properties' Dialog Box with a Routable MapSource Product

When using a routable product, the 'Route Properties' dialog box shows directions and turns from one waypoint to the next in the selected route. It also allows you to print the directions to your local printer.

### Naming a Route

If the 'Autoname' checkbox is marked, MapSource automatically names the route using the names of the first and last waypoints entered in the route. To enter a different name, remove the mark from the 'Autoname' checkbox in the 'Route Properties' window and enter a name in the 'Name' field.

### Inverting a Route

You can reverse the order of the route waypoints by clicking the "Invert" button. This feature is convenient when you want to navigate a route in the reverse direction. When finished, click "OK" to save the route.

### Viewing and printing directions of an auto-route (Turn-by-turn)

If your MapSource product supports turn-by-turn directions, you have the opportunity to view and print the directions of the auto-route you created. After selecting the 'Directions' tab in the Route Properties, the information displayed is 'Directions/Name', 'Distance', 'Leg Length', and 'Leg Time'. This information can be printed.

#### To print turn-by-turn directions:

1. After creating your route, click on the Directions tab.
2. Click the "Print Directions" button to send the turn-by-turn directions to your printer.

### **EDITING ROUTES**

Routes can be edited on the Graphic Map using the Selection Tool. You may choose the Selection Tool by clicking the Selection Tool icon from the Tools Toolbar, by choosing "Selection" from the Tools Menu, or by using the keyboard shortcut, **Ctrl+s**. The Selection Tool allows you to add waypoints to the beginning, middle or end of a route, remove a waypoint from a route, and move a waypoint to a new location in a route.



## To insert waypoints into an existing route:

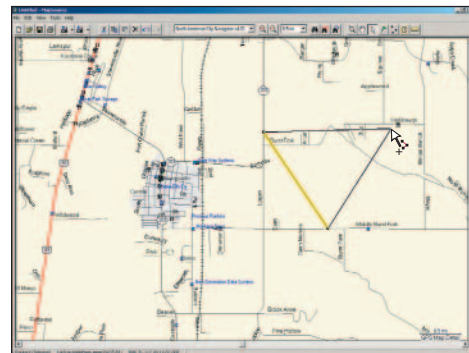
1. With the Selection Tool activated, select the route in the Routes Tab List or on the Graphic Map by clicking on it with the left mouse button. When the route is selected, it is highlighted in yellow.
2. Click the left mouse button on the route leg you want to add a waypoint to, or click the right mouse button on the route leg and select "*Insert Route Section*". The mouse pointer now has the "plus sign" (+) and a small icon of the Route Tool below it. The route leg will "rubber band," allowing you to stretch it to an existing waypoint or a map location.
3. When you have the mouse pointer at the desired position, click the right mouse button and select "*Add to Route*", or just click the left mouse button to add the point to the route leg.
4. Repeat these steps to insert additional waypoints. Click the left mouse button away from the route or press the **Esc** key on your keyboard to quit and save the changes to the route.

## To extend a route (add a waypoint to the beginning or end of a route):

1. With the Selection Tool activated, select the route in the Routes Tab List or on the Graphic Map by clicking on it with the left mouse button. When the route is selected, it is displayed in yellow.
2. Left-click on the first or last waypoint in the route, or right-click the first or last waypoint in the route and select "*Resume Route*". The mouse pointer will now have the "plus sign" (+) and a small icon of the Route Tool below it.
3. Move the extension line to an existing waypoint or a map location. Click the right mouse button and select *Add to Route*, or just click the left mouse button to anchor the route leg.
4. Repeat these steps to add more waypoints. Click the right mouse button and select *Cancel*, or press the **Esc** key on your keyboard to quit and save the changes to the route.

## Reference

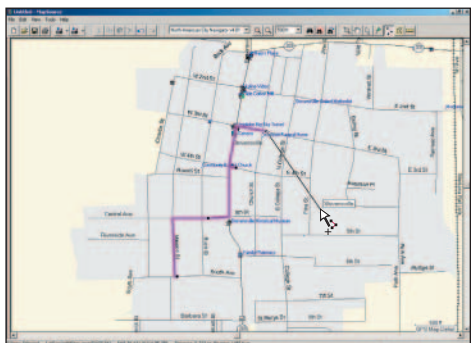
### Editing Routes



**Adding a Waypoint to a Route**

## Reference

### Editing Routes



#### Extending a Route

#### To remove a waypoint from a route:

1. With the mouse pointer located on the route waypoint that you want to remove, click the right mouse button and select *"Remove Waypoint From Route"*.

OR:

1. Click the left mouse button on the waypoint (highlighted in yellow). Select *"Remove Waypoint From Route"* from the Edit Menu.

#### To moving a waypoint to another location in a route:

1. With the Selection Tool activated, select the route in the Routes Tab List or on the Graphic Map by clicking on it with the left mouse button. When the route is selected, it is highlighted in yellow.
2. Left-click on the waypoint you want to move, or right-click the waypoint and select *"Replace Route Section"*. The mouse pointer will now have a curved arrow and a small icon of the Waypoint Tool below it. The route leg will "rubber band," allowing you to move the waypoint to a new location.
3. Position the mouse pointer where you want to move the waypoint. Click the right mouse button and select *"Add to Route"*, or just click the left mouse button to move the waypoint.

#### Editing Routes with the Route Properties

Many editing functions for routes can be performed in the 'Route Properties' dialog box.

#### To edit a Route with the Route Properties:

1. Select the route in the Routes Tab List or on the Graphic Map.
2. Choose *"Route Properties"* from the Edit Menu, or click the right mouse button and select *"Route Properties"*.
3. Make the desired changes and click the *"OK"* button to save the changes and exit.

**Name**— To change the route name, make sure the Autaname checkbox is not marked and type in a new name.


**Center Map on Selected Item**— With this box checked, when you select a via point in the route, it automatically is centered on the map where you view the ‘Route Properties.’

**OK**— Select this button to save changes to the route and exit the ‘Route Properties’ window.

**Cancel**— Select this button to cancel any changes made to the route and exit the ‘Route Properties’ window.

**Cut/Copy/Paste/Delete/Undo/Redo**— editing buttons like the functions in the Edit Menu. These options let you cut, copy, paste, and delete via points in the current route. You may also undo and redo these editing actions. These options can be used for the following purpose:

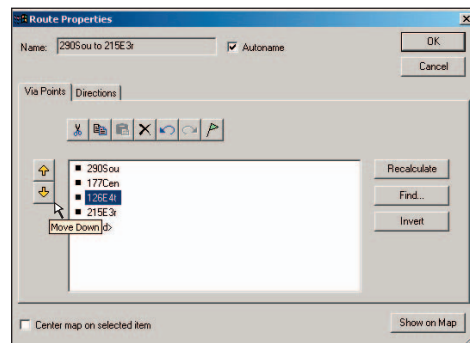
- To move one via point from its current location to another location within the route. You can also use the yellow up and down arrows to the left to adjust the via point up or down one level.
- To remove a via point from the current route.
- To undo the last action. The redo option is available after an undo action. This option is simply “redo the undo”.

**Via Point Properties**— Select the waypoint in the route list and click the “Via Point Properties” button.  The ‘Via Point Properties’ for the selected waypoint appears, allowing you to review and edit the waypoint. For more information, see “Editing Waypoints” on page 49.

**Find**— This button allows you to search for a city, point of interest (if applicable), address (if applicable) or another waypoint to add to the route. See “To add a map location to an automatic route with the Route Properties” on pages 53 for more information.

## Reference

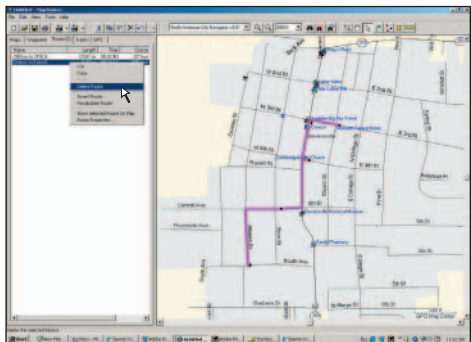
### Editing Routes



**Route Properties: Via Points**

## Reference

### Deleting Routes



**Deleting a route from the Route Tab**

**Recalculate**— If you have modified the Autorouting Preferences in the Edit Menu, you may recalculate an existing route according to the new preferences by clicking the “*Recalculate*” button. You may also use the “*Recalculate*” button to have a routable MapSource product change a direct route into an automatic route. For more information on setting up the ‘Autorouting Preferences’ see page 22. This feature only applies to routable MapSource products.

**Invert**— Reverses the waypoint order, making the last waypoint become the first waypoint in the route.

**Show On Map**— Centers the map on the selected route.

### Deleting a Route

You can delete a route on the Graphic Map or in the Routes Tab List.

#### **To delete a Route:**

1. With the Selection Tool activated, select the desired route in the Routes Tab List or on the Graphic Map by clicking on it with the left mouse button. When the route is selected, it is highlighted in yellow.

Do one of the following:

2. Press the **Delete** key on your keyboard; select *Delete Route* from the Edit Menu; click the right mouse button on the highlighted route either on the Graphic Map or in the Routes Tab List and select *Delete Route*; also you can click the “*Delete*” button in the Edit toolbar.

## TRACKS

Tracks can be used in two ways: you can transfer any tracks created on your Garmin GPS into MapSource, or create a track using your Garmin GPS and the Real Time Tracking feature in MapSource. Those tracks, and any tracks transferred to MapSource from a GPS, are listed in the Tracks Tab List.

### Real Time Tracking

When Real Time Tracking is enabled, MapSource reads information from the GPS, shows the GPS as a red triangle on the Graphic Map, displays the tracking data in the GPS Tab, and records a track.

In order to do real time tracking with a locked MapSource product, you must do the following:

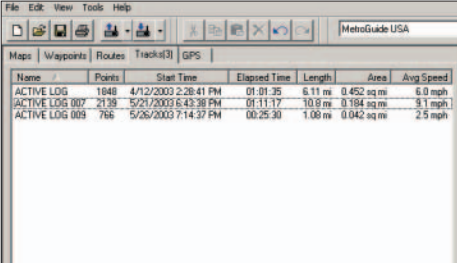
- Have a valid unlock code for your GPS unit installed in MapSource
- Receive real time information from a Garmin GPS unit that supports locked maps
- The GPS unit must be in Garmin transfer mode, not NMEA mode

### **To start Real Time Tracking:**

1. Check that your GPS is properly connected to a serial or USB port (if applicable) on your computer. Set the 'Serial Data Format' or 'USB Data Format' on your GPS to either Garmin or NMEA format. MapSource automatically reads the data format so you don't need to set up the format in MapSource. Only the more recent Garmin GPS's will output data in Garmin format.
2. Select the GPS Tab, click the "Select Device" button. Select your connection type. Click on 'Serial Port' for any Garmin GPS unit connected to a serial port. Select the correct Comm port and baud rate, or have MapSource locate your Garmin GPS unit automatically by using the "Auto Detect" button. (continued)

## Reference

### Tracks/Real Time Tracking

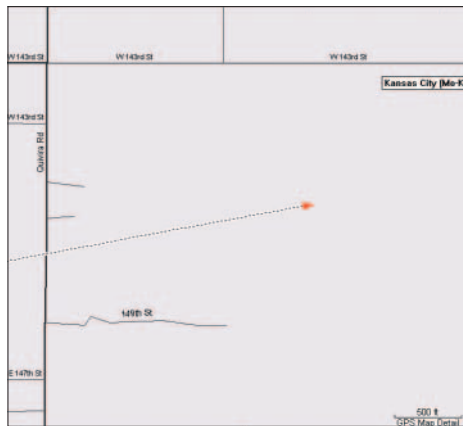


Name	Points	Start Time	Elapsed Time	Length	Area	Avg Speed
ACTIVE LOG	1848	4/12/2003 2:28:41 PM	01:01:35	6.11 mi	0.452 sq mi	6.0 mph
ACTIVE LOG 007	2138	5/21/2003 6:42:38 PM	01:11:17	10.0 mi	0.184 sq mi	9.1 mph
ACTIVE LOG 009	766	5/26/2003 7:14:37 PM	00:25:30	1.08 mi	0.042 sq mi	2.9 mph

### Tracks Tab List

## Reference

## Real Time Tracking/ GPS Tab



## Real Time Tracking on the Graphic Map

With the 'Keep vehicle visible on map' and 'Record track' features selected, MapSource shows the location of the GPS/vehicle (red triangle), keeps it centered on the Graphic Map, and records the track it follows.

- Click on "*USB Device*" if you own a Garmin GPS unit that can use a USB connection. The name of the GPS and software version appears to the right.
3. Check the 'Record Track' box to have MapSource start tracking your movements. The track is recorded and listed in the Tracks Tab.
4. To have MapSource automatically adjust the map to keep the vehicle/GPS (red triangle) visible on the Graphic Map, check the box next to 'Keep Vehicle Visible on Map.'
5. Click on the "*Filter*" button to select how the tracks points are used. Select 'Time' if you want the track points dropped by a timed interval (in seconds). Select 'Distance' if you want the track points dropped by a distance interval (in feet). Select 'Automatic' if you want MapSource to determine when to drop the track points. Use the slider bar if you want fewer or more points.
6. The first field describes the current Tracking Status and should display the message "Tracking is disabled". Click the "*Start Tracking*" button. One of the following messages may appear in the Tracking Status field: "Trying Garmin format", "Trying NMEA format", "3D Navigation", "3D Differential", "2D Navigation", "2D Differential" or "Poor GPS Coverage." As MapSource reads the GPS data, the tracking data appears in the GPS Tab data fields below the Tracking Status field.
7. To stop real time tracking, click the "*Stop Tracking*" button.

### GPS Tab Data Fields

The GPS Tab displays the data gathered from the GPS in real time, including tracking status, speed, altitude (not available in NMEA format), current compass heading ('track' field), compass bearing, position coordinates, date, and time.

**EPE**— (Estimated Position Error) The number in this field indicates the estimated accuracy of the horizontal position fix.

**DOP—** (Dilution of Precision) This measures satellite geometry quality (the number of satellites received and their location in relation to each other) on a scale from one to ten—the lower the number, the better the accuracy (not available in Garmin format).

**Keep Vehicle Visible on Map—** With this function selected, the vehicle (red triangle) remains centered on the Graphic Map during real time tracking, and the map display continually changes to show where the “vehicle” is traveling. Check/uncheck the box to select/deselect this feature.

**Record Track—** Check this box to select or deselect this function to have MapSource record the track that your GPS is navigating. MapSource automatically assigns a track name and displays it in the Tracks Tab List.

**Filter—** select this option to filter the track to your needs. The options available are by ‘Time’ (in seconds), ‘Distance’ (in feet), or ‘Automatic’ (MapSource determines when to drop the points using fewer or more points).

**Select Device—** select this button to determine how MapSource detects your Garmin GPS unit either by a Serial port or USB port (if applicable).

### Viewing a Track on the Map

#### **To view a Track on the Graphic Map:**

1. Highlight the track name in the Tracks Tab List.
2. Select “*Show Selected Track on Map*” by right-clicking on the track or from the View Menu. The track will be centered on the Graphic Map and highlighted in yellow. ZOOM IN to view track points and track legs.

## Reference

### GPS Tab

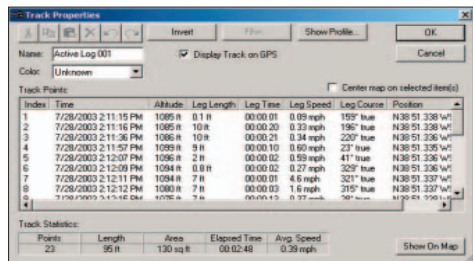
The screenshot shows the GPS Tab interface with the following elements:

- Top tabs: Maps(41), W/aypoints(4), Routes(1), Tracks(4), and GPS.
- A "Stop Tracking" button.
- A "3D Navigation" section with "Speed 30.0 mph" and "Altitude 1085 ft".
- A "Track 0° true" indicator.
- A large circular compass rose showing cardinal and intercardinal directions (N, NE, E, SE, S, SW, W, NW).
- A status bar displaying "N38 51.338 W94 47.929", "7/28/2003", and "2:11:17 PM".
- Fields for "EPE 14.6 ft" and "DOP".
- Checkboxes for "Keep vehicle visible on map" and "Record track", both of which are checked.
- Buttons for "Filter..." and "Select Device..." at the bottom.

### Real Time Tracking on the GPS Tab

## Reference

### Track Properties



**'Track Properties' Window**

### Viewing and Editing Track Properties

The 'Track Properties' can be activated by doing one of the following:

- Highlight a track in the Tracks Tab or on the Graphic Map, then select "Track Properties" from the Edit Menu.
- Highlight a track in the Tracks Tab or on the Graphic Map, then click the right mouse and select Track Properties from the Menu.
- Double-click the left mouse button on the track name in the Tracks Tab or on the track displayed on the Graphic Map.

### Track Properties

The 'Track Properties' window lets you change the track name, assign a color (if your GPS can display colors), invert the track, view a vertical profile of the track, and view and edit track points.

**Name**— displays the track name.

**Color**— choose from 16 colors for displaying the track on your Garmin GPS unit.

**Display Track on GPS**— keeps the track displayed on the GPS.

**Center Map on Selected Item(s)**— with this option selected, any time a track point is highlighted it is automatically displayed in the center of the Graphic Map while you view the 'Track Properties'.

**Invert**— reverses the order of the track points.

**Filter**— allows you to filter the current track points by 'Time', 'Distance', 'Automatic', or 'Maximum Points'.



### Track Properties

**Show Profile**— displays a vertical profile of the track. ZOOM IN and OUT to adjust the distance and altitude scales, and choose to show or hide track points. Click the left mouse button on the profile to view the distance and altitude at that location (you may need to move the scroll bars to view the entire profile, depending on the zoom scale).

**Track Points**— shows details of each track point. When points are highlighted, the selected leg of the track is highlighted in blue on the Graphic Map and the editing buttons are enabled.

**Track Statistics**— shows overall statistics of the current track. This options gives information like Total Number of track points, Length, Area, Elapsed Time, and Average Speed. You can narrow the statistics to a certain portion of the track by holding the **Ctrl** button and left clicking on the desired track points in the list above.

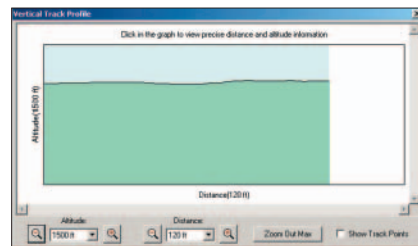
**Cut/Copy/Paste/Delete/Undo/Redo**— editing buttons like the functions in the Edit Menu. These options let you cut, copy, paste, and delete portions of the track. You may also undo and redo these editing actions.

**Show on Map**— select this button to view the revised track on the map while keeping the ‘Track Properties’ window open.

**OK**— saves the changes and closes the ‘Track Properties’ window.

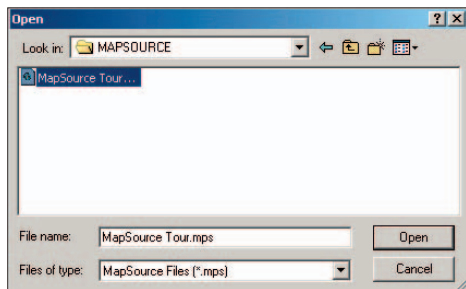
**Cancel**— cancels any changes and closes the ‘Track Properties’.

**‘Track Properties’ Right-Click Menu**— by clicking the right mouse button in the ‘Track Properties’ window, the following options map appear: Cut, Copy, Delete, Paste and Select All.



**‘Vertical Track Profile’ Window**

### MapSource Documents



**'Open' Dialog Box**

### MAPSOURCE DOCUMENTS

#### **To save a MapSource document:**

1. Choose "Save" from the File Menu, or click the "Save" button in the File Toolbar.
2. Select a location for your MapSource document, name the MapSource file, and click the "Save" button.

#### **To open a previously saved MapSource document:**

1. Choose "Open" from the File Menu, or click the "Open" button in the File Toolbar.
2. Select the saved MapSource document and click the "Open" button.

If you have a document open, MapSource closes the open document. If the open document data needs to be saved, MapSource prompts you before closing the document. Only one document can be open in MapSource at a time, but you can run several instances of MapSource simultaneously, allowing you to easily trade information.



---

**NOTE:** If you open a MapSource document with locked maps, and you don't have an Unlock Code for that map data, MapSource will still display the non-locked features of that file (waypoints, routes, etc.)

---

## PRINTING THE GRAPHIC MAP

The Print, Print Preview, and Print Setup options function like other Windows applications. Choose “*Print Setup*” to select a printer and set printing properties. You may need to change the DPI settings for the image to print. To preview what will be printed, select “*Print Preview*”. To print the current Graphic Map Display, select “*Print*” from the File Menu. Only a representation of the Graphic Map can be printed from MapSource.

## IMPORTING A GARMIN PCX5 DATA FILE

You may import a Garmin PCX5 data file to MapSource, but no other data file types are supported for import to MapSource.

### **To Import Garmin PCX5 Data:**

1. Choose “*Import*” from the File Menu. If you have set up your PCX5 data files in the Default File Location (in the File Location Tab under “*Preferences*” in the Edit Menu), that location automatically appears.
2. Select the PCX5 data file and click the **Open** Button. MapSource can display PCX5 waypoints (.wpt), routes (.rte), tracks (.trk), or one of the map outlines provided with PCX5 (.grm).



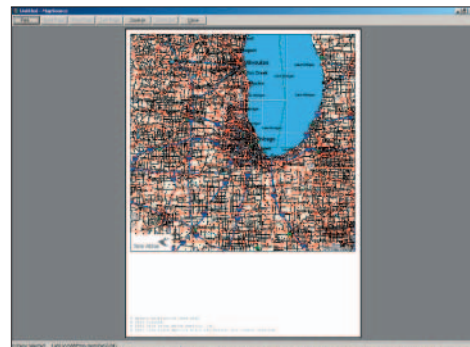
---

**NOTE:** To avoid screen clutter, turn off any MapSource map data, if using a PCX5 map outline.

---

## Reference

### MapSource Documents



**Print Preview**

## Appendix A

### Keyboard Shortcut

#### File Menu

New Document ..... Ctrl + N  
Open Existing Document ..... Ctrl + O  
Save Document ..... Ctrl + S  
Print Graphic Map ..... Ctrl + P  
Open From Device ..... Ctrl + Shift + O  
Save To Device ..... Ctrl + Shift + S

#### Edit Menu

Undo ..... Ctrl + Z  
Redo ..... Ctrl + Y  
Cut ..... Ctrl + X  
Copy ..... Ctrl + C  
Paste ..... Ctrl + V  
New Waypoint ..... Ctrl + W  
New Route ..... Ctrl + R  
New Track ..... Ctrl + Shift + T  
Delete ..... Del  
Remove Waypoint from Route .....  
..... Ctrl + Del  
Select All ..... Ctrl + A  
Preferences ..... Ctrl + Shift + P

#### View Menu



























Zoom To Selected Items ..... Ctrl + D  
Go To Position ..... Ctrl + T  
Zoom In ..... +  
Zoom Out ..... -  
Zoom In Max. .... Ctrl + +  
Zoom Out Region ..... Ctrl + -  
GPS Map Detail ..... Ctrl + G  
Show Crosshair ..... Ctrl + H  
Find Places ..... Ctrl + F  
Find Nearest Places .... Ctrl + Shift + F

#### Tools Menu

Zoom Tool ..... z  
Hand Tool ..... h  
Selection Tool ..... s  
Waypoint Tool ..... w  
Route Tool ..... r  
Map Tool ..... m  
Distance/Bearing Tool ..... d  
Unlock Codes ..... Ctrl + U

## Appendix B

### Map Legends: Businesses and Attractions

	Air Transportation		Hospital
	Amusement Park		Library
	Auto Rental		Live Theater
	Auto Repair		Lodging
	Bank & ATM		Marina
	Bar & Nightclub		Movie Theater
	Campground or RV Park		Museum & History
	Department Store		Parking
	Dining		Park & Garden
	Gas Station		Pharmacy
	Golf Course		Post Office
	Grocery Store, Shopping		School, College, or University
	Ground Transportation		Zoo or Aquarium

## Appendix B

### Map Legends: Points of Interest



Airport



Boat Ramp



Campground



Dam



Danger Area



Day Beacon, Green Square



Day Beacon, Red Triangle



Day Beacon, White Diamond



Dining



Drinking Water



Exit



Facilities



First Aid



Fish



Fishing Area Info



Fuel



Information



Marina



Park



Parking



Picnic Area



Restroom



Scenic Area



Showers



Skiing



Swimming



Telephone



Toll Booth



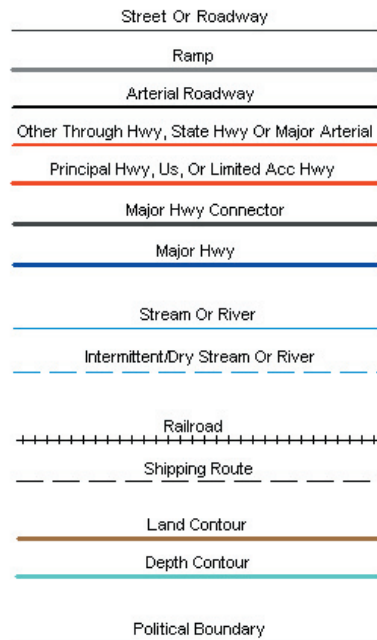
Weigh Station



Wreck

## Appendix B

### Map Legends: Lines and Areas





































Color map legends can be viewed in MapSource HELP.

## Appendix B

























### Map Legends: Navigational Aids and Obstructions

Color map legends can be viewed in MapSource HELP.

	Day Beacon, Green Square		Racon or Radio Beacon
	Day Beacon, Red Triangle		Rock Awash
	Day Beacon, White Diamond		Rock Submerged At Lower Water
	Fog Horn		Sounding
	Lit Navaid, Blue		Submerged Wreck, Dangerous
	Lit Navaid, Green		Submerged Wreck, Non-Dangerous
	Lit Navaid, Multi-Colored		Unclassified Obstruction
	Lit Navaid, Orange		Unlit Navaid, Black
	Lit Navaid, Red		Unlit Navaid, Green
	Lit Navaid, Violet		Unlit Navaid, Multi-Colored
	Lit Navaid, White		Unlit Navaid, Orange
	Lit Navaid, Yellow or Amber		Unlit Navaid, Other
	Navaid, Unknown Classification		Unlit Navaid, Red
	Obstruction, Awash		Unlit Navaid, White
	Obstruction, Cleared By Wire-Drag		Unlit Navaid, Yellow or Amber
	Obstruction Submerged		Visible Wreck
	Obstruction, Visible at High Water		Wreck, Cleared By Wire-Drag



In addition to the symbols in the Navigation Aids and Obstructions Legend, the following are some of the symbols found in MapSource BlueChart marine data:

	Airport/Seaplane Base		Fishing Harbor
	Anchorage Berth		Fishing Prohibited
	Anchoring Prohibited		Heliport
	Beacon		Information
	Building		Marina Information
	Buoy		Pilot Boarding Area
	Church		Precautionary Area
	Danger		Radio Report Point
	Dangerous Rock		Recommended Anchorage
	Explosive		Rescue Station
	Exposed Rock		Tide Station
	Exposed Wreck		Yacht Harbor

## Appendix B

### Map Legends: BlueChart Symbols

**BlueChart®**

## Appendix C

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